

Texas Emerging Technology Fund

Fiscal Year 2012 Legislative Report



OFFICE OF THE GOVERNOR
ECONOMIC DEVELOPMENT & TOURISM

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EXECUTIVE SUMMARY

The Office of the Governor Economic Development and Tourism operates and manages the Texas Emerging Technology Fund, which provides several economic development tools to assist fledging technology start-ups, consortia, and Texas research institutions to help expand the Texas Economy. As a trustee program, investment decisions and approval of awards are made by unanimous consent of the Governor, Lieutenant Governor, and Speaker of the House of Representatives (trustees). Established in 2005 at the Governor's request, the TETF was created with the goal of diversifying the economy through targeted investments in research-based enterprises and leveraging the State's great research institutions to generate wealth and opportunities for Texans. An innovation ecosystem requires: human capital; fair regulatory, tax and legal systems; and monetary capital. Through the foresight of the Governor and Legislature, Texas has established a unique foundation to build an engine of growth through innovation, and the TETF is an integral component for the ongoing development of Texas' economy.

The Texas Emerging Technology Fund Advisory Committee (Committee), as established by statute, is composed of seventeen (17) members. The Governor appoints thirteen (13) committee members, and the Lieutenant Governor and Speaker of the House of Representatives each appoints two (2) committee members. The Committee makes recommendations, through peer review and an evaluation process established by the Committee, to the trustees. Once the Committee makes a recommendation for approval of an

award, the Office of the Governor, as administrator of the program, conducts a 10-step due diligence process prior to submitting the application, and a synopsis of the proposal, to the trustees for consideration.

The governing statute established three programs through which the TETF awards funds: Incentives for Commercialization Activities, Research Award Matching, and Acquisition of Research Superiority. The TETF is authorized to provide awards in the form of equity, convertible debt, grants, and other forms of contribution or investment, as recommended by the Committee and approved by the trustees.

TETF also supports regional centers of innovation and commercialization (RCIC), established to provide research and development assistance for their specified region, along with incubation services and workforce training to businesses resulting from research and development activities. RCICs assist potential applicants to the TETF programs by providing guidance on the program's criteria and application process. Applicants for Incentives for Commercialization Activities are required to receive an RCIC recommendation prior to submitting an application for review by the Committee.

REPORTING REQUIREMENTS

In 2009, the Texas Legislature added Section 490.005 to Texas Government Code 490, requiring the Office of the Governor to provide an annual report to the trustees, the standing committee of each house of the legislature with primary jurisdiction over economic development matters, and to post it to the Governor's

website. The Texas Legislature later amended Section 490.005, adding Section 490.006 in 2011. The annual report is required to provide the name of each award recipient, the amount of the award, designation of recipients the State has taken an equity position in, and the total number and amount of awards made under each of the three programs (Appendix A). The annual report must also contain the aggregate total of private sector investment, federal government funding and contributions from other sources obtained in connection with awards made under each of the programs (Appendix B). In addition, this annual report contains the total number of jobs actually created by each recipient (Appendix C), the intended and actual outcomes of recipients funded under Incentives for Commercialization Activities, and a brief description of recipients of all Research Award Matching or Acquisition of Research Superiority awards (Appendix D). This report provides an analysis of the jobs actually created, the equity position the state may take in companies that received an award, and the financial impact on the State resulting from a liquidity event involving a company who received an award.

Throughout this report, the effective date of the contractual agreement between the Office of the Governor and the award recipient is referred to as the “award date.” The award amount listed is the aggregate funding the award recipient may receive pursuant to contractual terms. The award amount is subject to change between reporting periods based on certain contractual terms.

Texas Government Code Section 490.005 prohibits the annual report to contain information that is made confidential by law. Section 490.057 establishes

the types of information collected by the by the Office of the Governor, the Committee, or the Committee's advisory panels that is confidential. Information concerning the identity, background, finances, marketing plans, trade secrets, or other commercially or academically-sensitive information of an individual or entity being considered for, receiving, or having received an award from the fund is confidential unless the individual or entity consents to disclosure of the information. Excluded from the confidentiality provisions are each recipients name, address, amount of funding, description of the project, and a description of the equity position the state may take.

INCENTIVES FOR COMMERCIALIZATION ACTIVITIES

Incentives for Commercialization Activities Awards are established in Texas Government Code 490 Subchapter D. The program provides funds for incentives for privately-owned entrepreneurial businesses that are seeking to bring a new or enhanced technology to the marketplace. To be eligible for an award, the business must be partnered with one of the State’s research institutions or private institutions of higher education in this state. A research institution is defined as a public institution of higher education or, as amended in 2011 by the 82nd legislature, an innovation and commercialization organization associated with the Lyndon B. Johnson Space Center of the National Aeronautics and Space Administration. Priority for funding is given to proposals that involve emerging scientific and technology fields that have a reasonable probability of enhancing the State’s national

and global economic competitiveness. By strategically investing in industries with high growth potential, these investments help ensure Texas will remain a global leader in key industries. The program focuses on expediting innovation and commercialization of research developed at Texas research institutions, which, will lead to increases in applied technology research capabilities.

The TETF has awarded \$194,810,349 to 137 entities since 2005. Total investments as of August 31, 2012, were \$184,153,766, leaving an aggregate balance of \$10,656,583 in current commitments. The disbursement of the remaining encumbrance is contingent on certain contractual terms the recipient must achieve; in addition, to the award recipient must maintain continued compliance with the terms of the award agreement.

Follow-on Funding

TETF Incentives for Commercialization Activities award recipients have raised a total of \$761,995,216 in private sector investment, federal government funding, and contribution from other sources as of August 31, 2012. These follow-on funds were raised by award recipients subsequent to receiving financing from the TETF.

There has been a \$169,621,517 increase in the total amount of follow-on funding raised since the last report, a 28.6 percent increase. **Exhibit 1** illustrates the level of additional capital raised by award recipients distinguishing between industry clusters. Awards made to entities in the Biotechnology & Life Sciences cluster were the most active in raising additional capital, securing \$109,356,524 additional funds in fiscal year 2012.

Exhibit 1: Aggregate total of private sector investment, federal government funding, and contributions from other sources obtained in the connection with an Incentives for Commercialization Activities Awards

Industry Cluster	Number of Awards	Award Amount (\$)	Aggregate Total Private Sector Investment, Fed Gov't Funding, & Contributions from Other Sources
Advanced Technology & Manufacturing	21	27,274,829	210,849,369
Aerospace & Defense	5	7,900,000	15,487,855
Biotechnology & Life Sciences	67	103,885,520	318,830,572
Computer & Information Technology	27	31,200,000	52,996,003
Energy	17	24,550,000	163,831,417
Totals	137	\$ 194,810,349	\$ 761,995,216

Source: Texas Office of the Governor

State's Equity Position

The TETF has made awards under the Incentives for Commercialization program, to recipients that included the issuance to the Office of the Governor, on behalf of the State, of either: a warrant exercisable to purchase shares of common stock; a secured convertible promissory note; and a right to purchase shares of common or preferred stock. In this latter category, the State secured an Investment Unit in the company, which includes a promissory note whereby the State can potentially collect against the company in an event of default, as well as an equity option that provides the State the ability to purchase, upon certain events, common stock or preferred stock at a later date. Appendix A provides information specifying, for each award recipient, the type of security the State received in connection with the Award; including the class of

What is an Equity Security?

A share of equity interest in an entity such as the capital stock (common and preferred stock) of a company, trust, or partnership

What is a Warrant?

An equity derivative that entitles the holder to buy capital stock (common) of an entity issued at a specified price

What is an Equity Option?

An equity derivative that provides the right, but not the obligation, to purchase a quantity of stock, at a set price, within a certain period of time

What is a Promissory Note?

An instrument, wherein one party makes an unconditional contractual obligation to pay a determinate sum of money to the other, either at a fixed or determinable future time or on demand of the payee

What is a Secured Convertible Promissory Note?

An instrument, wherein one party makes an unconditional contractual obligation to pay a determinate sum of money to the other, either at a fixed or determinable future time or on demand of the payee

The Note can also be exchanged, at a fixed or determinable rate, into capital stock of the issuing entity either automatically or at the discretion of the holder.

capital stock the State has acquired, designating the equity position the Office of the Governor, on behalf of the State, has taken in each Company.

Valuation of Investments

Texas Government Code Section 490.006 requires the Office of the Governor to annually perform a valuation of the equity positions taken by the Office of the Governor, on behalf of the State, in companies receiving awards under the fund and of other investments. **Exhibit 2** presents the valuation of all investment assets obtained in connection with an Incentive for Commercialization Award. Investments are valued in aggregate and presented in asset classes based on the terms of the securities issued to the State. The aggregate values of assets are \$192,573,568; however, the TETF maintains an allowance for

Exhibit 2: Annual valuation of all investment assets

Equity Securities	\$	132,795,802
Warrants		20,484,349
Equity Options		31,543,417
Secured Convertible Promissory Notes		1,750,000
Promissory Notes		6,000,000
Allowance for Uncollectable Loans		(6,000,000)
Total	\$	186,573,568

Source: Texas Office of the Governor

uncollectable loans of \$6,000,000 as a contra account against potential bad debts. The TETF has made \$184,153,766 in capital investments and the current value of investment assets equals \$186,573,568, a difference of \$2,419,802. The Office of the Governor received \$5,518,910 in cash from the sale of securities acquired through an Incentive for Commercialization Activities Award.

Analysis of Jobs

Valuation Methodology

Equity securities with a readily-determinable fair market value are valued based on the NASDAQ closing price on August 31, 2012. If not readily determinable, fair value is based on the closing price of the last issuance and sale of capital stock of the entity.

Equity Warrants and Options which do not have a readily determinable fair market value are valued using a cost-based methodology. Prior to exercise by the State of Texas, the value of an equity warrant or option is equal to the aggregate total of funds received by a Company pursuant to the Award Agreement.

Secured Convertible Promissory Notes are valued on the current principal outstanding, though interest revenue is not recorded until received or converted into capital stock of the issuing entity.

Promissory Notes are recorded based on the current principle outstanding, though interest revenue is not recorded until received. These notes expire after 10 years. Due to the terms of the contracts, the Office of the Governor expects that cash payment for these notes will not be received except under certain circumstances. It is the opinion of management that recording the value of these notes as assets would severely overstate fund assets. Promissory Notes can be demanded upon an event of default pursuant to contract terms. When a Promissory Note is called, a note receivable is recorded; the Warrant, Equity Option, or Equity value is then reassessed to be valueless.

Texas Government Code Section 490.005 requires the Office of the Governor to provide the total number of jobs actually created by each project funded under this chapter, an analysis of the number of jobs actually created by each project receiving funding under this chapter; and a brief description regarding: the methodology used to determine the information provided.”

Appendix C provides an analysis of the number of jobs created by entities that have received an Incentive for Commercialization Activities Award. Data provided in Appendix C, unless stated elsewhere in this report, were derived from annual reports and direct communication with each entity. Texas average salary data are derived from average weekly wage (2nd Quarter of 2012) for the corresponding North American Industry Classification System (NAICS) codes as provided by the Texas Workforce Commission’s Quarterly Census of Employment and Wages. U.S. average salary data are derived from average weekly wage (2011) for the corresponding NAICS codes as obtained from the Quarterly Census of Employment and Wages from the Bureau of Labor Statistics website. The numbers of jobs impacted in other industries in the Texas economy are derived from the Impact Analysis for Planning (IMPLAN) Input-Output model for Texas. The number of jobs impacted represents the number of additional jobs impacted in other industries in the Texas economy for every job retained and/or created in association with the entity receiving funding. Data specific to each Award Recipient are calculated based on aggregate retained and/or actual created jobs during the operational life cycle of the Company. These data were

developed using multipliers provided by Texas Comptroller of Public Accounts, Economic Development & Analysis Division on the basis of the following:

1. The industry under consideration is fully operational; and
2. These multipliers were derived based on the number of direct, indirect and induced jobs needed to produce \$1 million worth of output.

RESEARCH AWARD MATCHING

Research Award Matching Awards are established in Texas Government Code 490 Subchapter E. The goal of this program is to create public-private partnerships to leverage the unique strength of universities, federal government grant programs and industry. This enables Texas to secure additional research funds from outside the State in key technical and scientific areas that contribute to the growth of our emerging-technology economy.

Priority is given to emerging-technology research and development that will have a significant impact on Texas' future economy or may result in a major medical or scientific breakthrough. Preference is also given to research activities that involve collaboration among multiple Texas institutions of higher education and private entities. The program has also been utilized to provide critical funding for projects that require State participation to receive Federal Grants or other awards.

Follow-on Funding

TETF Research Award Matching award recipients have raised a total of \$163,275,946 in private sector investment, federal government funding, and contributions from other sources as of August 31, 2012. That represents a \$40,335,994 increase in the total amount of follow-on funding was raised since the last report, a 32.8 percent increase. Appendix B provides specific follow-on funding amounts for each of the 13 Research Award Matching award recipients.

Analysis of Jobs

Texas Government Code Section 490.005 requires the Office of the Governor to provide "the total number of jobs actually created by each project funded under this chapter; an analysis of the number of jobs actually created by each project receiving funding under this chapter; and a brief description regarding: the methodology used to determine the information provided."

Appendix C provides an analysis of the number of jobs actually created in entities that have received a Research Award Matching Award. Data provided in Appendix C, unless stated elsewhere in this report, were derived from compliance reports, direct communication and other verified sources. The numbers of jobs impacted in other industries in the Texas economy are derived from the Impact Analysis for Planning (IMPLAN) Input-Output model for the specific region in which the entity is located. The number of jobs impacted represents the numbers of additional jobs impacted in other industries in the Texas economy for every job created and/or retained in the institution. These data were developed using multipliers provided by Texas

Comptroller of Public Accounts, Economic Development & Analysis Division on the basis of the following assumptions:

1. The industry under consideration is fully operational; and
2. These multipliers were derived based on the number of direct, indirect and induced jobs in all industries in the Statewide coverage Area that are impacted by a \$1 Million of Scientific Research and Development output.

ACQUISITION OF RESEARCH SUPERIORITY

Acquisition of Research Superiority awards are established in Texas Government Code 490 Subchapter F. The objective of this program is to bring the best and brightest researchers in the world to Texas. This enables our Texas public institutes of higher education to continue to build expertise in key research areas, attract and inspire students to pursue advanced degrees in math, sciences, and engineering, and provide an invaluable resource to the community by fostering innovation and commercialization in our State. Priority is given to proposals that involve scientific or technical fields that have a reasonable probability of enhancing the State's national and global economic competitiveness, as well as proposals that may result in a medical or scientific breakthrough. Added consideration is also given to proposals that are interdisciplinary, are eligible for federal and other outside funding, and are likely to create a nationally or internationally recognized locus of research superiority.

To be eligible for this award, an applicant must be a Texas public institution of higher education, commit to acquiring new research superiority talent from outside the State, and be sponsored by the institution's leadership.

Follow-on Funding

TETF Acquisition of Research Superiority award recipients have raised a total of \$744,875,921 in private sector investment, federal government funding, and contributions from other sources as of August 31, 2012. A \$105,642,918 increase in the total amount of follow-on funding was raised since the last report, a 16.5 percent increase. Appendix B provides specific follow-on funding amounts for each of the 21 Research Award Matching award recipients.

Analysis of Jobs

Texas Government Code Section 490.005 requires the Office of the Governor to provide "the total number of jobs actually created by each project funded under this chapter; an analysis of the number of jobs actually created by each project receiving funding under this chapter; and a brief description regarding: the methodology used to determine the information provided."

Appendix C provides an analysis of the number of jobs actually created in entities that have received a Research Award Matching Award. Data provided in Appendix C, unless stated elsewhere in this report, were derived from compliance reports, direct communication and other verified sources. The numbers of jobs impacted in other industries in the Texas economy are derived from the Impact Analysis for Planning (IMPLAN)

Input-Output model for the specific region in which the entity is located. The number of jobs impacted represents the numbers of additional jobs impacted in other industries in the Texas economy for every job created and/or retained in the institution. These data were developed using multipliers provided by Texas Comptroller of Public Accounts, Economic Development & Analysis Division on the basis of the following assumptions:

1. The industry under consideration is fully operational; and
2. These multipliers were derived based on the number of direct, indirect and induced jobs in all industries in the Statewide coverage Area that are impacted by a \$1 Million of Scientific Research and Development output.

APPENDIX A: TEXAS EMERGING TECHNOLOGY FUND, ALL AWARDS BY PROGRAM

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
Incentives for Commercialization Activities							
1st Detect Corporation	Aerospace & Defense	Miniature universal chemical detector	UNT	Central Texas	3/30/10	Investment Unit	1,800,000
21-Century Silicon, Inc.	Energy	Solar-grade silicon manufacturing	UT - Dallas	North Texas	1/30/09	Common Stock	3,500,000
2Cimple, Inc.	Computer & IT	Interactive hyper-coded video	UT - Dallas	North Texas	6/1/09	Investment Unit	1,500,000
ActaCell, Inc.	Energy	Manganese-spinel enhanced Li-ion battery	UT - Austin	Central Texas	10/5/09	Series A Preferred Stock	1,000,000
Advanced Receiver Technologies, Inc.	Computer & IT	Digital baseband receiver	UT - Dallas	North Texas	10/2/09	Investment Unit	250,000
Advitech, Inc.	Aerospace & Defense	Visual system for spatial disorientation & motion sickness	MD Anderson	South Texas	3/24/09	Common Stock	2,500,000
Agile Planet, Inc.	Advanced Tech. & Manufacturing	Robotic control in advanced manufacturing	UT - Austin	Central Texas	4/2/09	Common Stock	1,000,000
AgileMesh, Inc.	Aerospace & Defense	Rapidly deployable video surveillance	UT - Dallas	North Texas	5/25/10	Investment Unit	2,000,000
America Stem Cell, Inc.	Biotechnology & Life Science	Fucosyltransferase enzyme treatment	MD Anderson	South Texas	5/27/09	Common Stock	1,250,000
Analogix Development Corporation	Computer & IT	Motion-sensing 3D game controller	UT - Austin	Central Texas	12/19/08	Common Stock	250,000
Animal Innovations, Inc.	Biotechnology & Life Science	Animal medication injection system	TAMU	West Texas	11/12/08	Series B Preferred Stock	1,000,000
Apaxis Medical, Inc.	Biotechnology & Life Science	LVAD Implant	Rice	Gulf Coast	6/8/09	Common Stock	600,000
AuricX Pharmaceuticals, Inc.	Biotechnology & Life Science	Drug for Staph infection	MD Anderson	Gulf Coast	12/3/10	Investment Unit	1,000,000
Azaya Therapeutics, Inc.	Biotechnology & Life Science	Liposome encapsulated radiation therapy	UTHSC - San Antonio	South Texas	7/28/09	Series D Preferred Stock	1,045,000
Bauhaus Software, Inc.	Computer & IT	Social networking software	UT - San Antonio	South Texas	7/5/06	Warrant	500,000
Bellicum Pharmaceuticals, Inc.	Biotechnology & Life Science	Cancer vaccine	Baylor College of Medicine	Gulf Coast	9/27/07	Warrant	1,450,000
BetaBatt, Inc.	Energy	Long-life self-charging nuclear battery	Rice	Gulf Coast	6/20/08	Common Stock	500,000
BiO2 Medical, Inc.	Biotechnology & Life Science	Temporary central venous filter	UTHSC - San Antonio	South Texas	11/12/08	Series B Preferred Stock	1,000,000
Biscotti, Inc.	Computer & IT	Communications & services	UT - Dallas	North Texas	2/25/09	Series A Preferred & Common Stock	1,000,000
Blue Box Health, Inc.	Biotechnology & Life Science	Remote monitoring of chronic diseases	University of Houston	Gulf Coast	8/13/10	Investment Unit	1,000,000
Bynari, Inc.	Computer & IT	Tech platform for messaging app integration	UT - Arlington	North Texas	6/2/09	Common Stock	1,500,000
Calxeda, Inc.	Advanced Tech. & Manufacturing	Low-power system-on-a-chip server	UT - Austin	Central Texas	7/1/09	Series A Preferred Stock	1,000,000
CardioSpectra, Inc.	Biotechnology & Life Science	Fiber-optic cardiac catheter	UTHSC - San Antonio	South Texas	5/25/06	Warrant	1,350,000
Castle Biosciences, Inc.	Biotechnology & Life Science	Biomarker test for GBM cancer	MD Anderson	Gulf Coast	3/11/09	Series C Preferred Stock	1,000,000
Chipotle Business Group, Inc.	Biotechnology & Life Science	Reagent testing system	UT - Arlington	North Texas	2/2/09	Investment Unit	1,000,000

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
Cirasys, Inc.	Advanced Tech. & Manufacturing	Digital power control technology	UT - Dallas	North Texas	7/16/12	Secured Convertible Promissory Note	1,000,000
Codekko, Inc.	Computer & IT	Intelligent web optimization software	UT - Dallas	North Texas	7/3/08	Common Stock	1,500,000
Corhythm, Inc.	Biotechnology & Life Science	Implantable treatment for atrial fibrillation	UTSA &UTHSC - San Antonio	South Texas	10/1/10	Series A Preferred Stock	3,113,000
CorInnova, Inc.	Biotechnology & Life Science	Cardiac rekinesis therapy	TAMU	Gulf Coast	5/31/06	Common Stock	500,000
Cormedics Corporation	Biotechnology & Life Science	Intrapericardial medical device	Texas Heart Institute	Gulf Coast	9/18/08	Series A Preferred Stock	750,000
CryoPen, Inc.	Biotechnology & Life Science	Cryosurgical medical device	UTHSC - Houston	South Texas	8/6/08	Common Stock	2,000,000
DataInfoCom USA, Inc.	Computer & IT	Predictive enterprise decision support systems	UT - Austin	North Texas	7/12/10	Investment Unit	1,600,000
Dentlight, Inc.	Biotechnology & Life Science	Dental diagnostic device	UTHSC - San Antonio	North Texas	7/7/08	Series AA Preferred Stock	250,000
DEP Shape Memory Therapeutics, Inc.	Biotechnology & Life Science	Cerebrovascular aneurysm treatment	TAMU	Gulf Coast	8/3/09	Common Stock	1,000,000
Device Fidelity, Inc.	Computer & IT	Removable secure transaction chipcards	UT - Dallas	North Texas	10/7/09	Series C Preferred Stock	3,000,000
Diabetica Solutions, Inc.	Biotechnology & Life Science	Diabetes therapeutics	UT - San Antonio	South Texas	5/25/06	Warrant	1,000,000
DNAtriX, Inc.	Biotechnology & Life Science	Viral cancer therapy	MD Anderson	Gulf Coast	12/1/08	Series A-1 Preferred Stock	500,000
Endothelix, Inc.	Biotechnology & Life Science	Cardiovascular diagnostic	UTHSC - Houston	Gulf Coast	7/18/06	Common Stock	1,000,000
Ensyce Biosciences, Inc.	Biotechnology & Life Science	Carbon nanotube/siRNA cancer therapeutic	Rice	Gulf Coast	6/1/10	Series B Preferred Stock	1,500,000
Enthuze, Inc.	Computer & IT	Software tools for data gathering	UT - Austin	South Texas	2/18/09	Series A Preferred Stock	1,650,000
Environmental Quality Management Associates, Inc.	Energy	Fuel ethanol from waste	TAMU	North Texas	11/4/08	Common Stock	250,000
Falcon International, Inc.	Aerospace & Defense	Ballistic panel technology	UT - Permian Basin	West Texas	10/23/07	Warrant	850,000
Faradox Energy Storage, Inc.	Advanced Tech. & Manufacturing	High-energy capacitors	Texas State	Central Texas	10/30/08	Common Stock	1,000,000
Fe3 Medical, Inc.	Biotechnology & Life Science	Trans-dermal drug-delivery for iron-deficiency	UTSA &UTHSC - San Antonio	South Texas	10/1/10	Series A Preferred Stock	2,841,000
FibeRio Technology Corporation	Advanced Tech. & Manufacturing	Nanofiber fabrication equipment	UT - Pan American	Tropical Texas	8/24/10	Series B Preferred Stock	1,500,000
FireFly LED Lighting, Inc.	Energy	Smart LED light bulbs	UT - Austin	Central Texas	11/23/10	Investment Unit	3,000,000
Genprex, Inc.	Biotechnology & Life Science	Nanomolecular cancer therapeutics	MD Anderson	Central Texas	8/13/10	Investment Unit	4,500,000
Gradalis, Inc.	Biotechnology & Life Science	Metastatic cancer therapy	TAMU	North Texas	2/19/09	Series A Preferred Stock	1,750,000
Halsa Pharmaceuticals, Inc.	Biotechnology & Life Science	Clinical obesity therapeutic	TAMU	Gulf Coast	12/19/07	Common Stock	1,000,000
Hanson Robotics, Inc.	Advanced Tech. & Manufacturing	Animatronic robotics	UT - Arlington	North Texas	10/18/06	Warrant	1,500,000
HeatGenie, Inc.	Advanced Tech. & Manufacturing	Self-heating food packaging technology	UT - Austin	Central Texas	11/5/08	Common Stock	1,000,000
Ideal Power Converters, Inc.	Energy	Solar Power Inverter	UT - Austin	Central Texas	10/1/10	Investment Unit	1,000,000

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
iLearning Gateway, Inc.	Computer & IT	Automated web-based tutor	UT - Arlington	North Texas	8/7/09	Investment Unit	1,000,000
Image Trends, Inc.	Computer & IT	Digital imaging technology	UT - Austin	Central Texas	5/15/08	Common Stock	1,000,000
Interoperate.biz, Inc.	Computer & IT	Rapid translation-based migration	UT - Dallas	North Texas	7/9/09	Investment Unit	1,000,000
InView Technologies Corporation	Computer & IT	High-performance cameras	Rice	Central Texas	8/24/10	Series A Preferred Stock	1,500,000
Iridescent Networks, Inc.	Computer & IT	Network comm. node for low-latency switching	UT - Dallas	North Texas	7/19/10	Investment Unit	1,000,000
itRobotics, Inc.	Advanced Tech. & Manufacturing	Oil & Gas pipe inspection	Rice	Gulf Coast	7/5/06	Common Stock	750,000
J.C. Lads Corporation (dba Biometric Signature ID)	Computer & IT	Identity proofing on the internet	UT System	North Texas	10/6/10	Series A Preferred Stock	550,000
KLD Energy Technologies, Inc.	Energy	Advanced electric motor systems	UT - Austin	Central Texas	12/3/10	Series B-1 Preferred Stock	2,800,000
Laser Tissue Welding, Inc.	Biotechnology & Life Science	Surgical therapy	St. Luke's Episcopal Hospital	Gulf Coast	7/31/07	Warrant	160,000
LaserGen, Inc.	Biotechnology & Life Science	DNA sequencing system	Baylor	Gulf Coast	9/16/09	Series A Preferred Stock	1,000,000
Leonardo Biosciences, Inc.	Biotechnology & Life Science	Mesoporous silicon particles for the drug delivery	UTHSC - Houston	Gulf Coast	4/15/10	Series A-2 Preferred Stock	2,500,000
MacuCLEAR, Inc.	Biotechnology & Life Science	Topically administered treatment for Dry AMD	TAMU	North Texas	4/20/09	Series A-1 Preferred Stock	1,700,000
Mayan Pigments, Inc.	Advanced Tech. & Manufacturing	Pigment technology	UT - El Paso	Trans Pecos - El Paso	7/25/08	Common Stock	750,000
Merkatum Corporation	Computer & IT	Biometric identity management	UT - Austin	Central Texas	11/10/08	Common Stock	1,000,000
MicroTransponder, Inc.	Biotechnology & Life Science	Neurostimulation medical device	UT - Dallas	North Texas	2/19/08	Warrant	1,380,000
MicroZAP, Inc.	Biotechnology & Life Science	Low-temperature radio frequency food sterilization	Texas Tech	West Texas	4/30/10	Investment Unit	1,500,000
Mirna Therapeutics, Inc.	Biotechnology & Life Science	MicroRNA replacement therapy	MD Anderson	Central Texas	11/11/09	Series B-1 Preferred Stock	5,000,000
Modria, Inc.	Computer & IT	Supply chain software	UT - Dallas	North Texas	12/1/08	Common Stock	500,000
Molecular Imprints, Inc.	Advanced Tech. & Manufacturing	Imprint lithography	UT - Austin	Central Texas	5/30/06	Warrant	3,000,000
Molecular Logix, Inc.	Biotechnology & Life Science	Pan-HER anti-cancer ligands	Baylor	Gulf Coast	3/20/07	Warrant	794,520
Monebo Technologies, Inc.	Biotechnology & Life Science	Heart monitoring device	UT - Austin	Central Texas	10/23/06	Common Stock	500,000
Mystic Pharmaceuticals, Inc.	Biotechnology & Life Science	Ophthalmic and intranasal drug delivery platform	UTMB	Central Texas	4/21/09	Common Stock	1,568,000
Nano Medical Systems, Inc.	Biotechnology & Life Science	Nanochannel drug delivery device	UTHSC - Houston	Central Texas	9/30/08	Series A Preferred Stock	3,500,000
Nano3D Biosciences, Inc.	Biotechnology & Life Science	3D cell culturing	Rice	Gulf Coast	5/20/10	Investment Unit	1,000,000
NanoComposites, Inc.	Advanced Tech. & Manufacturing	Nanotechnologies	Rice	Gulf Coast	9/20/06	Common Stock	1,500,000
Nanocoolers, Inc.	Advanced Tech. & Manufacturing	Nanoelectronic cooling system	UT - Austin	Central Texas	3/5/07	Warrant	3,000,000
NanoSpectra Biosciences, Inc.	Biotechnology & Life Science	Particle-based thermal ablation of cancer	Rice	Gulf Coast	6/12/06	Common Stock	1,250,000

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
NanoTailor, Inc.	Advanced Tech. & Manufacturing	Functionalized SWNT	Texas State	Central Texas	3/16/10	Investment Unit	250,000
Net Watch Solutions, Inc.	Computer & IT	IT management software	UT - Dallas	North Texas	3/25/08	Warrant	500,000
Net.Orange, Inc.	Computer & IT	Medical information system	Southwestern Med Center	North Texas	7/30/09	Series A Preferred Stock	1,900,000
Neuro Resource Group, Inc.	Biotechnology & Life Science	Neurostimulation	UT - Arlington	North Texas	7/1/10	Investment Unit	1,500,000
NeuroLink, Inc.	Biotechnology & Life Science	Implantable drug/device therapy for epilepsy	UTSA & UTHSC - San Antonio	South Texas	10/1/10	Series A Preferred Stock	3,234,000
Noninvasix, Inc.	Biotechnology & Life Science	Multiple blood diagnostic measurement	UTMB	Gulf Coast	4/8/09	Common Stock	250,000
Oncolix, Inc.	Biotechnology & Life Science	Treatment for Breast & Ovarian Cancer	MD Anderson	Gulf Coast	10/1/10	Common Stock	2,400,000
OnTrack Imaging, Inc.	Biotechnology & Life Science	C-scan ultrasound imaging	TAMU	North Texas	10/7/09	Common Stock	1,000,000
OptiSense Network LLC.	Energy	Electro-optic HV sensor	UT - Arlington	North Texas	3/5/07	Warrant	1,500,000
Ortho Kinematics, Inc.	Biotechnology & Life Science	Spinal diagnostic device	UT - Austin	North Texas	5/8/09	Series A-1 Preferred Stock	1,500,000
OrthoAccel Technologies, Inc.	Biotechnology & Life Science	Orthodontic device	UT - Dallas	Gulf Coast	10/26/07	Warrant	750,000
Palmaz Scientific, Inc.	Biotechnology & Life Science	Advanced stent technology	UTHSC - San Antonio	South Texas	4/15/10	Series B Preferred Stock	3,000,000
Patton Surgical Corporation	Biotechnology & Life Science	Double-shielded trocar	UT - Austin	Central Texas	9/4/09	Series B Preferred Stock	3,000,000
Photodigm, Inc.	Advanced Tech. & Manufacturing	Semiconductor diode laser	UT - Dallas	North Texas	4/26/07	Warrant	749,829
Photon8, Inc.	Energy	Algae biofuels	UT - Brownsville	Tropical Texas	11/13/09	Investment Unit	1,000,000
PLx Pharma, Inc.	Biotechnology & Life Science	GI safer formulations of NSAIDs	UTHSC - Houston	Gulf Coast	3/27/07	Common Stock	2,000,000
PrincipleSoft, Inc.	Computer & IT	QAM enhancement software	UT - Dallas	North Texas	6/13/07	Warrant	750,000
Pronucleotein Biotechnologies Corporation	Biotechnology & Life Science	Rapid on-site food safety testing	UT - Pan American	South Texas	2/18/09	Investment Unit	1,000,000
Pulmotect, Inc.	Biotechnology & Life Science	Stimulated innate resistance against inhaled pathogens	MD Anderson	Gulf Coast	6/8/09	Common Stock	1,000,000
Qcue, Inc.	Computer & IT	Predictive pricing for ticketing sales	UT - Austin	Gulf Coast	10/20/09	Investment Unit	1,000,000
Quantum Logic Devices, Inc.	Advanced Tech. & Manufacturing	Medical diagnostics platform	UT - Austin	Central Texas	3/27/07	Warrant	600,000
RadioMedix, Inc.	Biotechnology & Life Science	Radiopharmaceuticals for PET imaging	MD Anderson	Central Texas	11/23/10	Common Stock	2,800,000
Rebellion Photonics, Inc.	Advanced Tech. & Manufacturing	Hyperspectral imaging system	Rice	Gulf Coast	6/21/12	Secured Convertible Promissory Note	1,000,000
Receptor Logic, Inc.	Biotechnology & Life Science	Monoclonal antibody technology	Texas Tech	West Texas	6/16/08	Common Stock	2,000,000
Resonant Sensors, Inc.	Biotechnology & Life Science	Optical bio/chemical sensor	UT - Arlington	North Texas	5/18/07	Common Stock	600,000
RFMicron, Inc.	Advanced Tech. & Manufacturing	Self-tuning RFID integrated circuits	UT - Austin	Central Texas	5/22/08	Series A Preferred Stock	925,000
Salient Pharmaceuticals, Inc.	Biotechnology & Life Science	Treatment for cancer therapy-induced diarrhea	MD Anderson	Gulf Coast	12/14/09	Series A Preferred	2,000,000

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
Savara, Inc.	Biotechnology & Life Science	Nanoparticle for lung cancer staging & screening	UT - Austin	Central Texas	6/1/10	Series B Preferred Stock	1,900,000
ScanTech Sciences, Inc.	Advanced Tech. & Manufacturing	Food irradiation	TAMU	Tropical Texas	7/9/09	Investment Unit	2,000,000
Secure Origins, Inc.	Computer & IT	Freight tracking & logistics	UT - El Paso	Trans Pecos - El Paso	7/5/07	Warrant	2,000,000
Seno Medical Instruments, Inc.	Biotechnology & Life Science	Laser opto-acoustic imaging of cancer	UTHSC - SA	South Texas	7/19/07	Warrant	2,000,000
SeprOx Corporation	Biotechnology & Life Science	Medical oxygen generator	University of Houston	Gulf Coast	2/17/09	Investment Unit	750,000
Smart Imaging Technologies Corporation	Computer & IT	Automated pathogen detection system	TAMU	Gulf Coast	12/31/08	Investment Unit	1,000,000
SmartField, Inc.	Biotechnology & Life Science	Biotic monitoring and irrigation control system	Texas Tech	West Texas	1/6/10	Priority Preferred	1,000,000
SNRLabs Corporation	Computer & IT	Wireless convergence manager	UT - Dallas	North Texas	9/26/07	Common Stock	750,000
SolarBridge Technologies, Inc.	Energy	Photovoltaic micro-inverter	UT - Austin	Central Texas	12/30/09	Series B-1 Preferred Stock	1,500,000
Solarno, Inc.	Energy	Carbon nanotube sheets	UT - Dallas	North Texas	3/1/09	Common Stock	250,000
Speer Medical Devices, Inc.	Biotechnology & Life Science	Portable non-invasive vital sign monitor	UT - San Antonio	South Texas	3/31/11	Investment Unit	2,500,000
StarVision Technologies, Inc.	Aerospace & Defense	Optical based guidance & navigation systems	TAMU	Gulf Coast	10/30/07	Warrant	750,000
Stellarray, Inc.	Advanced Tech. & Manufacturing	Flat-panel X-ray technology	TAMU	Central Texas	7/17/08	Common Stock	750,000
Sunrise Ridge Algae, Inc.	Energy	Algae biofuel	UT - Austin	Central Texas	7/24/08	Common Stock	250,000
Syndiant, Inc.	Advanced Tech. & Manufacturing	Personal media projector	UT - Dallas	North Texas	2/20/09	Series B Preferred Stock	3,500,000
Terapio Corporation	Biotechnology & Life Science	Topical cancer therapy	UT - Arlington	Central Texas	7/21/08	Series A-2 Preferred Stock	1,700,000
Terrabon, Inc.	Energy	Biofuels refinery	TAMU	Tropical Texas	7/12/10	Series A Preferred Stock	2,750,000
Texas MicroPower, Inc.	Energy	Piezoelectric energy harvesting	UT - Arlington	North Texas	2/15/08	Common Stock	750,000
Thrombo Vision, Inc.	Biotechnology & Life Science	Platelet measuring device	TAMU - Commerce	Gulf Coast	7/5/07	Warrant	1,500,000
TurboTrac USA, Inc.	Energy	Infinitely variable transmission	UT - Permian Basin	West Texas	8/24/09	Series A Preferred	2,000,000
TXL Group, Inc.	Energy	Thermoelectric generation technology	UT - El Paso	Trans Pecos - El Paso	2/4/08	Warrant	500,000
Vapogenix, Inc.	Biotechnology & Life Science	Non-opioid topical analgesics	MD Anderson	Gulf Coast	6/15/12	Secured Convertible Promissory Note	2,000,000
Varaha Systems, Inc.	Computer & IT	uMobility solutions	UT - Arlington	North Texas	8/14/09	Series B Preferred Stock	1,500,000
Veros Systems, Inc.	Computer & IT	Remote electric motor sensing	TAMU	Gulf Coast	6/14/10	Investment Unit	1,500,000
ViroXis Corporation	Biotechnology & Life Science	Bio-pharma therapy for diseases & cancer	UTSA & UTHSC - San Antonio	South Texas	10/1/10	Series B Preferred Stock	2,500,000
Visualase, Inc.	Biotechnology & Life Science	MRI-guided laser cancer treatment	MD Anderson	Gulf Coast	8/9/07	Common Stock	750,000
Vital Arts & Sciences Incorporated	Biotechnology & Life Science	In-home medical monitor for dry or wet AMD	Southwestern Med Center & UNTHSC	North Texas	6/7/11	Investment Unit	1,000,000

Award Recipient	Industry Cluster	Project Description	University Collaboration	Region	Award Date	Investment Instrument	Award Amount (\$)
VUV Analytics, Inc.	Biotechnology & Life Science	Spectroscopy products	UT - Austin	Central Texas	6/15/12	Secured Convertible Promissory Note	1,000,000
Xitronix Corporation	Advanced Tech. & Manufacturing	Nanomanufacturing devices	UT - Austin	Central Texas	1/17/08	Common Stock	500,000
Xtreme Power, Inc.	Energy	Power load leveling	UT - Austin	Central Texas	3/27/07	Warrant	2,000,000
ZS Pharma, Inc.	Biotechnology & Life Science	Oral sorbent technologies	UNT HSC	North Texas	8/13/10	Series B Convertible Preferred Stock	2,000,000
Incentives for Commercialization Activities Subtotals			Project Total:	137		Award Total:	\$194,810,349

Award Recipient	Project Description	Region	Award Date	Award Amount (\$)	
Regional Center of Innovation and Commercialization					
Greater Austin Chamber of Commerce	Central Texas Regional Center of Innovation and Commercialization	Central Texas	FY 2008 - FY 2012	1,207,451	
Technology and Entrepreneurship Center of Houston, Inc.	Gulf Coast Regional Center of Innovation and Commercialization	Gulf Coast	FY 2008 - FY 2012	1,416,000	
Technology and Entrepreneurship Center of Houston, Inc.	Bay Area Regional Center of Innovation and Commercialization	Bay Area	FY 2012	245,000	
Alliance for Higher Education	North Texas Regional Center of Innovation and Commercialization	North Texas	FY 2008 - FY 2012	1,325,000	
Startech Foundation	South Texas Regional Center of Innovation and Commercialization	South Texas	FY 2008 - FY 2012	1,296,000	
Texas Lifescience Center for Innovation and Commercialization	Texas Lifescience Center for Innovation and Commercialization	Statewide	FY 2008 & FY 2010	452,500	
Trans Pecos/El Paso Regional Center for Innovation and Commercialization	Trans Pecos/El Paso Regional Center for Innovation and Commercialization	Trans Pecos/El Paso	FY 2008 - FY 2012	1,175,000	
Texas Tech University	West Texas Regional Center of Innovation and Commercialization	West Texas	FY 2008 - FY 2012	844,942	
Valley Initiative for Development and Advancement	Rio Grande Regional Center of Innovation and Commercialization	Tropical Texas	FY 2008	100,075	
Rio Tech Fund	Rio Grande Regional Center of Innovation and Commercialization	Tropical Texas	FY 2010	145,200	
Texas State Technical College Harlingen	Tropical Texas Regional Center of Innovation and Commercialization	Tropical Texas	FY 2012	250,000	
Regional Center of Innovation and Commercialization Subtotals		Project Total:	11	Award Total:	\$ 8,457,168

Award Recipient	Industry Cluster	Project Description	Collaboration	Region	Award Date	Award Amount (\$)	
Research Award Matching							
Alliance for Higher Education	Advanced Tech. & Manufacturing	Atomically Precise Manufacturing	DARPA, UT - Dallas, UNT, Molecular Imprints, & Zyvex Labs	North Texas	3/7/08	4,700,000	
Carbon Nanotechnologies, Inc.	Advanced Tech. & Manufacturing	Single-walled nanotubes	NIST & Advance Technology Program	Gulf Coast	9/1/06	75,000	
Center for Commercialization of Electric Technologies	Energy	21st Century smart grid	Dept. of Energy	Central Texas	10/9/07	500,000	
Global Contours Ltd.	Aerospace & Defense	Self-sensing devices	U.S. Army SBIR & NSF	North Texas	4/5/07	950,000	
Lynntech, Inc.	Energy	Fuel cells	PHC	Gulf Coast	4/19/07	600,000	
National Trauma Institute	Biotechnology & Life Science	Trauma care	U.S. Army Inst. Of Surgical Research & Athena GTX	South Texas	1/28/08	3,800,000	
Sematech Corporation	Advanced Tech. & Manufacturing	Immersion lithography	UT Austin, UT Dallas, Molecular Imprints, HP, TI, & DARPA	Central Texas	5/22/06	5,000,000	
Texas A&M University System	Biotechnology & Life Science	National Institute for Therapeutics Manufacturing	MD Anderson & DARPA	Gulf Coast	1/27/09	50,000,000	
Texas Agricultural Experiment Station	Energy	Algae biofuels	U.S. Air Force, DARPA, & NAABB	West Texas	11/29/07	4,025,000	
Texas Railroad Commission - FutureGen	Energy	FutureGen	U.S. Department of Energy	West Texas	8/31/06	3,259,095	
University of Texas System - Southwest Alliance for Nanotechnology (SWAN)	Biotechnology & Life Science	Southwest Academy of Nanotechnology	DARPA, NSF, NIST, & NRI	Central Texas	1/9/07	1,750,000	
University of Texas at Dallas - Future Semiconductor Commercialization (FUSION)	Advanced Tech. & Manufacturing	Semiconductor research	COSAR	North Texas	10/6/08	5,000,000	
University of Texas Health Science Center at San Antonio - Comprehensive Facility for Animal Imaging Research (CFAIR)	Biotechnology & Life Science	Comprehensive facility for animal imaging research	DARPA, NIH, UT, American Heart Assoc., SA Area Foundation & VA	South Texas	2/22/07	4,099,973	
Research Award Matching Subtotals				Project Total:	13	Award Total:	\$ 84,659,068

Award Recipient	Industry Cluster	Project Description	Collaboration	Region	Award Date	Award Amount (\$)
Acquisition of Research Superiority Awards						
Texas A&M University	Biotechnology & Life Science	Texas Institute for Preclinical Studies	Research Valley Partnership	Gulf Coast	7/20/07	6,300,000
Texas A&M University	Energy	Texas BioEnergy Alliance	TAES, TCES, TEES	Gulf Coast	7/26/07	3,412,500
Texas A&M University Health Science Center at Temple	Biotechnology & Life Science	Institute for Regenerative Medicine	Scott & White	Central Texas	9/19/08	5,250,000
Texas State University at San Marcos	Energy	Center for Multifunctional Materials	Freescall, Motorola & Sematech	Central Texas	2/9/09	4,200,000
Texas Tech University at Lubbock	Biotechnology & Life Science	ICE in Agriculture Genomics and Biotechnology	Bayer CropScience	West Texas	5/1/06	2,045,950
Texas Tech University at Lubbock	Computer & IT	Nanotechnology Center	GE & Honeywell	West Texas	2/12/08	2,100,000
Texas Tech University at Lubbock	Energy	National Institute for Renewable Energy	Vestas & Alstom	West Texas	8/20/10	8,400,000
University of Houston	Biotechnology & Life Science	Center for Cell Signaling	Methodist Hospital Research Institute	Gulf Coast	2/5/09	5,775,000
University of Houston	Energy	Superconductivity Applied Research	Superpower	Gulf Coast	11/17/09	3,675,000
University of North Texas Health Science Center	Biotechnology & Life Science	Center for Commercialization of Fluorescence Technology	Max Planck Institute, University of Ulich, University of Goeteborg, & University of New Hampshire	North Texas	3/13/07	2,388,750

Award Recipient	Industry Cluster	Project Description	Collaboration	Region	Award Date	Award Amount (\$)
University of Texas at Austin	Biotechnology & Life Science	Neuroscience Imaging Center	STARS	Central Texas	12/10/07	3,675,000
University of Texas at Dallas	Computer & IT	Texas Analog Center of Excellence	Texas Instruments & SRC	North Texas	9/1/09	4,725,000
University of Texas at El Paso	Energy	Center for Inland Desalination Systems	DOD & City of El Paso	Trans Pecos - El Paso	10/20/08	2,100,000
University of Texas at El Paso	Advanced Tech. & Manufacturing	3D Integrated Systems Technology	Lockheed Martin	Gulf Coast	7/21/10	3,150,000
University of Texas at San Antonio	Computer & IT	Institute for Cyber Security Research		South Texas	4/5/07	3,694,950
University of Texas at Tyler	Energy	TxAIRE	Siemens-Trane	North Texas	7/14/07	3,937,500
University of Texas Health Science Center at Houston	Biotechnology & Life Science	Alliance for NanoHealth		Gulf Coast	8/23/06	2,625,000
University of Texas Health Science Center at Houston	Biotechnology & Life Science	Center for Translational Injury Research	Memorial Hermann Hospital	Gulf Coast	10/6/08	4,200,000
University of Texas Health Science Center at Houston	Biotechnology & Life Science	Texas Therapeutic Institute	Siemens, Genentech, & Astra Zeneca	Gulf Coast	7/12/10	6,300,000
University of Texas Health Science Center at Houston	Biotechnology & Life Science	Children's Regenerative Medicine	Memorial Hermann Hospital	Gulf Coast	7/28/11	3,150,000
University of Texas System	Computer & IT	Southwest Academy of Nanotechnology	Texas Instruments & NERC	Central Texas	3/15/07	10,500,000
Acquisition of Research Superiority Awards Subtotals			Project Total:	21	Award Total:	\$ 91,604,650

Project Subchapter Totals	Project Totals	Award Totals (\$)
Incentives for Commercialization Activities Awards	137	194,810,349
Regional Center of Innovation and Commercialization Awards	11	8,457,168
Research Award Matching	13	84,659,068
Acquisition of Research Superiority Awards	21	91,604,650
Texas Emerging Technology Fund Totals	182	\$ 379,531,235

APPENDIX B: FOLLOW-ON FUNDING

Incentives for Commercialization Activities

Industry Cluster	Number of Awards	Award Amount (\$)	Aggregate Total Private Sector Investment, Fed Gov't Funding, & Contributions from Other Sources (\$)
Advanced Technology & Manufacturing	21	27,274,829	210,849,369
Aerospace & Defense	5	7,900,000	15,487,855
Biotechnology & Life Sciences	67	103,885,520	318,830,572
Computer & Information Technology	27	31,200,000	52,996,003
Energy	17	24,550,000	163,831,417
Totals	137	\$ 194,810,349	\$ 761,995,216

Research Award Matching

Award Recipient	Industry Collaboration & Funding Source	Award Date	Award Amount (\$)	Aggregate Total Private Sector Investment, Fed Gov't Funding, & Contributions from Other Sources
Alliance for Higher Education	DARPA, UT - Dallas, UNT, Molecular Imprints, & Zyvex Labs	3/7/08	4,700,000	5,489,172
Carbon Nanotechnologies, Inc.	NIST & Advance Technology Program	9/1/06	975,000	975,000
Center for Commercialization of Electric Technologies	Dept. of Energy	10/9/07	500,000	14,000,000
Global Contours Ltd.	U.S. Army SBIR & NSF	4/5/07	950,000	1,280,000
Lynntech, Inc.	PHC	4/19/07	600,000	1,438,237
National Trauma Institute	U.S. Army Inst. Of Surgical Research & Athena GTX	1/28/08	3,800,000	3,800,000
Sematech Corporation	UT Austin, UT Dallas, Molecular Imprints, HP, TI, & DARPA	5/22/06	5,000,000	5,000,000
Texas A&M University System	MD Anderson & DARPA	1/27/09	50,000,000	74,634,979
Texas Agricultural Experiment Station	U.S. Air Force, DARPA, & NAABB	11/29/07	4,025,000	13,813,516
Texas Railroad Commission - FutureGen	U.S. Department of Energy	8/31/06	3,259,095	18,030,950
University of Texas System - Southwest Alliance for Nanotechnology (SWAN)	DARPA, NSF, NIST, & NRI	1/9/07	1,750,000	7,300,000
University of Texas at Dallas - Future Semiconductor Commercialization (FUSION)	COSAR	10/6/08	5,000,000	4,810,000
University of Texas Health Science Center at San Antonio - Comprehensive Facility for Animal Imaging Research (CFAIR)	DARPA, NIH, UT, American Heart Assoc., SA Area Foundation & VA	2/22/07	4,099,973	12,704,092
Totals			\$ 84,659,068	\$ 163,275,946

Acquisition of Research Superiority

Award Recipient	Industry Collaboration & Funding Source	Award Date	Award Amount (\$)	Aggregate Total of Private Sector Investment, Fed Gov't Funding, & Contributions from Other Sources (\$)
Texas A&M University System				
Texas A&M University	Texas Institute for Preclinical Studies	7/20/07	6,300,000	77,717,527
Texas A&M University	Texas BioEnergy Alliance	7/26/07	3,412,500	35,830,435
Texas A&M University Health Science Center at Temple	Institute for Regenerative Medicine	9/19/08	5,250,000	48,581,987
Texas State University System				
Texas State University at San Marcos	Center for Multifunctional Materials	2/9/09	4,200,000	35,314,090
Texas Tech University System				
Texas Tech University at Lubbock	Nanotechnology Center	2/12/08	2,100,000	18,290,238
Texas Tech University at Lubbock	ICE in Agriculture Genomics and Biotechnology	5/1/06	2,045,950	30,863,701
Texas Tech University at Lubbock	National Institute for Renewable Energy	8/20/10	8,400,000	18,449,049
University of Houston System				
University of Houston	Cell Signaling	2/5/09	5,775,000	28,286,071
University of Houston	Superconductivity	11/17/09	3,675,000	27,476,575
University of North Texas System				
University of North Texas Health Science Center	Center for Commercialization of Fluorescence Technology	3/13/07	2,388,750	3,376,074
University of Texas System				
University of Texas at Austin	Neuroscience Imaging Center	12/10/07	3,675,000	86,634,431
University of Texas at Dallas	Texas Analog Center of Excellence	9/1/09	4,725,000	24,036,232
University of Texas at El Paso	Integrated 3D Systems Technology	7/21/10	3,150,000	12,041,808
University of Texas at El Paso	Center for Inland Desalinization Systems	10/20/08	2,100,000	7,162,465
University of Texas at San Antonio	Institute for Cyber Security Research	4/5/07	3,694,950	6,640,860
University of Texas at Tyler	TxAire	7/14/07	3,937,500	5,689,746
University of Texas Health Science Center at Houston	Alliance for NanoHealth	8/23/06	2,625,000	45,529,927
University of Texas Health Science Center at Houston	Center for Translation Injury Research	10/6/08	4,200,000	83,667,087
University of Texas Health Science Center at Houston	Texas Therapeutics Institute	7/12/10	6,300,000	5,912,287
University of Texas Health Science Center at Houston	Children's Regenerative Medicine	7/28/11	3,150,000	7,225,770
University of Texas System	Southwest Academy for Nanotechnology	3/15/07	10,500,000	136,149,561
Totals			\$ 91,604,650	\$ 744,875,921

APPENDIX C: ANALYSIS OF JOBS

Incentives for Commercialization Activities

Project	Notes	Fiscal Year 2011			Fiscal Year 2012			Texas Average Salary (\$) (NAICS - Q2 2012)	U.S. Average Salary (\$) (NAICS - 2011)	Number of Jobs Impacted in Other Industries
		Retained Jobs	Jobs Created	Total Number of Jobs	Retained Jobs	Jobs Created	Total Number of Jobs			
1st Detect Corporation		5	8	13	10		10	70,544	97,249	34
21-Century Silicon, Inc.	1,2									
2Cimple, Inc.		3	1	4	4	1	5	90,893	98,638	11
ActaCell, Inc.		4	6	10	9		9	47,429	54,975	20
Advanced Receiver Technologies, Inc.	1,2									
Advitech, Inc.	3	5		5						
Agile Planet, Inc.		3	1	4	4		4	90,893	98,638	9
AgileMesh, Inc.		4	7	11	5		5	73,153	76,865	18
America Stem Cell, Inc.			5	5	5	2	7	98,615	115,390	18
Analogix Development Corporation		3		3	3	1	4	90,006	103,568	10
Animal Innovations, Inc.		3	4	7	2		2	52,073	72,529	5
Apaxis Medical, Inc.		1	2	3	3		3	52,073	72,529	8
AuricX Pharmaceuticals, Inc.		4	0	4	4	2	6	98,615	115,390	15
Azaya Therapeutics, Inc.		6	3	9	9	4	13	98,615	115,390	33
Bauhaus Software, Inc.	4									
Bellicum Pharmaceuticals, Inc.		1	6	7	7	8	15	98,615	115,390	38
BetaBatt, Inc.	1,2									
BiO2 Medical, Inc.		3	19	22	19		19	114,686	88,564	62
Biscotti, Inc.		2	7	9	9	4	13	90,893	98,638	28
Blue Box Health, Inc.		1	1	2	2		2	114,686	88,564	6
Bynari, Inc.		5	2	7	3		3	90,893	98,638	7
Calxeda, Inc.		1	43	44	44	32	76	104,720	121,385	363
CardioSpectra, Inc.	5									
Castle Biosciences, Inc.		3	3	6	6	2	8	98,615	115,390	20
Chipotle Business Group, Inc.		3	1	4	4		4	70,544	97,249	14
Cirasys, Inc.	6					3	3	53,378	61,302	7
Codekko, Inc.		3	11	14	14		14	90,893	98,638	31
Corhythm, Inc.	3		2	2						
CorInnova, Inc.		2	2	4	3		3	52,073	72,529	8
Cormedics Corporation		1		1	1	1	2	52,073	72,529	5
CryoPen, Inc.		7		7	6		6	53,169	47,124	9
DataInfoCom USA Inc.		3	1	4	2		2	90,893	98,638	4
Dentlight, Inc.		11	4	15	11		11	65,170	56,713	37
DEP Shape Memory Therapeutics, Inc.		2		2	1		1	98,615	115,390	3
Device Fidelity, Inc.		10	14	24	24	8	32	90,893	98,638	70
Diabetica Solutions, Inc.	3	3		3						
DNAtrix, Inc.		7	1	8	5		5	98,615	115,390	13
Endothelix, Inc.		4		4	4		4	114,686	88,564	13
Ensysce Biosciences Inc.		2	6	8	6		6	98,615	115,390	15

Project	Notes	Fiscal Year 2011			Fiscal Year 2012			Texas Average Salary (\$) (NAICS - Q2 2012)	U.S. Average Salary (\$) (NAICS - 2011)	Number of Jobs Impacted in Other Industries
		Retained Jobs	Jobs Created	Total Number of Jobs	Retained Jobs	Jobs Created	Total Number of Jobs			
Enthuze, Inc.		2	3	5	5		5	76,857	98,638	11
Environmental Quality Management Associates, inc.		2		2	2		2	104,407	94,839	15
Falcon International, Inc.		3	1	4	3		3	98,981	80,842	14
Faradox Energy Storage, Inc.		3	1	4	2		2	95,798	88,755	4
Fe3 Medical, Inc.	3		2	2						
FibeRio Technology Corporation		6	14	20	20	8	28	61,622	70,309	102
FireFly LED, Inc.		1	4	5	5	5	10	50,038	67,771	23
Genprex, Inc.			6	6	5		5	98,615	115,390	13
Gradalis, Inc.	3	13	7	20				98,615	115,390	
Halsa Pharmaceuticals, Inc.		3	3	6	2		2	98,615	115,390	5
Hanson Robotics, Inc.		4	9	13	13	27	40	90,006	103,568	101
HeatGenie, Inc.		1	4	5	5	2	7	91,885	106,448	18
Ideal Power Converters, Inc.		4	3	7	7	1	8	53,378	61,302	20
iLearning Gateway, Inc.		3	2	5	5		5	90,893	98,638	11
Image Trends, Inc.		9	1	10	10		10	73,153	76,865	37
Interoperate.biz, Inc.		3	1	4	4		4	90,893	98,638	9
InView Technology Corporation		3	5	8	8		8	56,873	75,312	22
Iridescent Networks, Inc.		4	2	6	5		5	90,893	98,638	11
itRobotics, Inc.		10	1	11	11		11	90,006	103,568	28
J.C. Lads Corporation (dba Biometric Signature ID)		2	4	6	4		4	92,145	98,638	9
KLD Electronics Texas, Inc.		27	24	51	32		32	65,848	72,454	96
Laser Tissue Welding, Inc.		2		2	2		2	52,073	72,529	5
LaserGen, Inc.		9	1	10	10	5	15	98,615	115,390	38
Leonardo Biosystems, Inc.		0	2	2	2	1	3	90,006	103,568	8
MacuCLEAR, Inc.		2	2	4	3		3	90,006	103,568	8
Mayan Pigments, Inc.		1		1	1		1	99,294	76,455	5
Merkatum Corporation		2		2	2		2	90,893	98,638	4
MicroTransponder, Inc.		3	8	11	9		9	114,686	88,564	29
MicroZAP, Inc.		2		2	2		2	90,006	103,568	5
Mirna Therapeutics, Inc.		7	5	12	12	1	13	98,615	115,390	33
Modria, Inc.		0	2	2	2	2	4	90,893	98,638	9
Molecular Imprints, Inc.	3	75	17	92				74,875	72,965	
Molecular Logix, Inc.		5		5	1		1	98,615	115,390	3
Monebo Technologies, Inc.		3		3	2		2	114,686	88,564	6
Mystic Pharmaceuticals, Inc.		17	2	19	9		9	39,498	51,581	16
Nano Medical Systems, Inc.		6	1	7	7	3	10	90,006	103,568	25
Nano3D Biosciences, Inc.		2	1	3	3	3	6	90,006	103,568	15
NanoComposites, Inc.	3	5		5						
Nanocoolers, Inc.	4									
NanoSpectra Biosciences, Inc.		8		8	8		8	114,686	88,564	26
NanoTailor, Inc.	1,2	1		1						
Net Watch Solutions, Inc.	4	1	4	5						
Net.Orange, Inc.		32	18	50	50	5	55	90,893	98,638	120

Project	Notes	Fiscal Year 2011			Fiscal Year 2012			Texas Average Salary (\$) (NAICS - Q2 2012)	U.S. Average Salary (\$) (NAICS - 2011)	Number of Jobs Impacted in Other Industries
		Retained Jobs	Jobs Created	Total Number of Jobs	Retained Jobs	Jobs Created	Total Number of Jobs			
Neuro Resource Group, Inc.		17	2	19	18		18	114,686	88,564	58
NeuroLink, Inc.	3		2	2						
Noninvasix, Inc.		3		3	3	1	4	70,544	97,249	14
Oncolix, Inc.		3		3	3		3	98,615	115,390	8
OnTrack Imaging, Inc.		3		3	2		2	52,073	72,529	5
OptiSense Network LLC.		5	16	21	21	16	37	72,527	85,795	81
Ortho Kinematics, Inc.		1	11	12	8		8	52,073	72,529	20
OrthoAccel Technologies, Inc.		2	12	14	14	8	22	58,647	55,160	46
Palmas Scientific Inc.		13		13	5		5	90,006	103,568	13
Patton Surgical Corporation	5	4	4	8						
Photodigm, Inc.		10		10	10	4	14	104,720	121,385	67
Photon8, Inc.		1	3	4	4	1	5	90,006	103,568	13
PLx Pharma, Inc.		3	4	7	7		7	90,006	103,568	18
PrincipleSoft, Inc.			1	1	1		1	90,893	98,638	2
Pronucleotein Biotechnologies Corporation		3	3	6	6		6	98,615	115,390	15
Pulmotect, Inc.		6	1	7	1		1	98,615	115,390	3
Qcue, Inc.		0	6	6	6	4	10	90,893	98,638	22
Quantum Logic Devices, Inc.		1		1	1		1	72,527	99,854	3
RadioMedix, Inc.		2	2	4	4	3	7	90,945	95,506	24
Rebellion Photonics, Inc.	6				7	1	8	52,595	70,090	21
Receptor Logic, Inc.		3		3	3	1	4	91,885	106,448	10
Resonant Sensors, Inc.	3	1	4	5				98,615	115,390	
RFMicron, Inc.		1	2	3	3	1	4	113,956	64,399	11
Salient Pharmaceuticals, Inc.		2	3	5	4		4	90,006	103,568	10
Savara, Inc.		4		4	4	1	5	90,006	103,568	13
ScanTech Sciences, Inc.		8		8	1		1	90,945	95,506	3
Secure Origins, Inc.		4	1	5	5		5	90,893	98,638	11
Seno Medical Instruments, Inc.		10	3	13	13	20	33	52,073	72,529	83
SeprOx Corporation	1,2	1		1	1		1	90,006	103,568	3
Smart Imaging Technologies Corporation		4	1	5	5	1	6	90,893	98,638	13
SmartField, Inc.		2	15	17	16		16	47,168	58,794	49
SNRLabs Corporation		7	8	15	7		7	90,893	98,638	15
SolarBridge Technologies, Inc.		24	33	57	57	26	83	53,378	61,302	204
Solarno, Inc.		2	2	4	4		4	54,525	59,528	10
Speer Medical Devices, Inc.		3	3	6	5		5	114,686	88,564	16
StarVision Technologies, Inc.	4									
Stellarray, Inc.		6	10	16	16		16	90,945	95,506	54
Sunrise Ridge Algae, Inc.	1,2	1		1						
Syndiant, Inc.		15	14	29	28		28	104,720	121,385	134
Terapio Corporation		3	6	9	9	4	13	98,615	115,390	33
Terrabon, Inc.	2,3,4	31	27	58						
Texas MicroPower, Inc.		1		1	1		1	113,956	64,399	3
Thrombo Vision, Inc.	4									

Project	Notes	Fiscal Year 2011			Fiscal Year 2012			Texas Average Salary (\$) (NAICS - Q2 2012)	U.S. Average Salary (\$) (NAICS - 2011)	Number of Jobs Impacted in Other Industries
		Retained Jobs	Jobs Created	Total Number of Jobs	Retained Jobs	Jobs Created	Total Number of Jobs			
Turbo Trac USA, Inc.		1	3	4	4	5	9	56,873	64,036	24
TXL Group, Inc.		4		4	3		3	96,163	94,883	10
Vapogenix, Inc.	6				2		2	90,006	103,568	5
Varaha Systems, Inc.		21	7	28	28		28	90,893	98,638	61
Veros Systems, Inc.		9		9	8		8	90,893	98,638	17
ViroXis Corporation		2		2	2	1	3	98,615	115,390	8
Visualese, Inc.		6	8	14	14	1	15	52,073	72,529	38
Vital Arts & Sciences Incorporated		1	0	1	1	3	4	52,073	72,529	10
VUV Analytics, Inc.	6					5	5	70,544	97,249	17
Xitronix Corporation		2	1	3	3		3	95,798	88,755	14
Xtreme Power, Inc.		20	181	201	117		117	123,661	97,032	381
ZS Pharma, Inc.		3	8	11	11		11	90,006	103,568	28
Totals & Averages		680	727	1,407	998	238	1,236	\$ 84,985	\$ 92,852	3110

Notes:

1. Company did not perform certain duties as defined in the Award Agreement between the Company and the Office of the Governor.
2. Company referred to the Texas Attorney General's Office to pursue available remedies.
3. Company did not report jobs information for fiscal year 2012.
4. Company has ceased operations or filed bankruptcy.
5. Company was acquired and no longer required to report information to the Office of the Governor.
6. Company received an Award in fiscal year 2012. Fiscal year 2011 data is not available.

Research Award Matching

Award Recipient	Industry Collaboration & Funding Source	Notes	Fiscal Year 2011		Fiscal Year 2012			
			Jobs Created	Average Salary (\$) (Simple)	Retained Jobs	Jobs Created	Average Salary (\$) (Weighted)	Number of Jobs Impacted in Other Industries
Alliance for Higher Education	DARPA, UT - Dallas, UNT, Molecular Imprints, & Zyvex Labs	1	25	73,150				
Carbon Nanotechnologies, Inc.	NIST & Advance Technology Program	2	5	87,500				
Ctr for Commercialization of Electric Technologies	Dept. of Energy	1	10	45,761				
Global Contours Ltd.	U.S. Army SBIR & NSF	2	1	40,000				
Lynntech, Inc.	PHC	2	1	51,367				
National Trauma Institute	U.S. Army Inst. Of Surgical Research & Athena GTX	1	6	101,500				
Sematech Corporation	UT Austin, UT Dallas, Molecular Imprints, HP, TI, & DARPA	2	165	12,305				
Texas A&M University System	MD Anderson & DARPA		6	136,600	6	56	65,244	94
Texas Agricultural Experiment Station	U.S. Air Force, DARPA, & NAABB		8	26,550	8	11	37,542	29
Texas Railroad Commission - FutureGen	U.S. Department of Energy	2	0	-				
University of Texas System - Southwest Alliance for Nanotechnology (SWAN)	DARPA, NSF, NIST, & NRI	2	70	232,274				
University of Texas at Dallas - Future Semiconductor Commercialization (FUSION)	COSAR		40	40,000	23		53,599	35
University of Texas Health Science Center at San Antonio - Comprehensive Facility for Animal Imaging Research (CFAIR)	DARPA, NIH, UT, American Heart Assoc., SA Area Foundation & VA	1	15	62,850				
Totals & Averages			351	\$ 69,989	37	67	\$ 52,128	158

Notes:

1. Award Agreement expired.
2. Entity did not report job information for fiscal year 2012.

Acquisition of Research Superiority

Award Recipient	Project Description	Notes	Fiscal Year 2011		Fiscal Year 2012			
			Jobs Created	Average Salary (Simple)(\$)	Retained Jobs	Jobs Created	Average Salary (Weighted)(\$)	Number of Jobs Impacted in Other Industries
Texas A&M University System								
Texas A&M University	Texas Institute for Preclinical Studies		33	91,888	24		71,749	36
Texas A&M University	Texas BioEnergy Alliance		14	68,689	14	6	42,809	30
Texas A&M University Health Science Center at Temple	Institute for Regenerative Medicine		42	40,038	42	4	59,407	70
Texas State University System								
0								
Texas State University at San Marcos	Center for Multifunctional Materials		3	98,000	3	50	40,925	81
Texas Tech University System								
Texas Tech University at Lubbock	Nanotechnology Center		26	27,019	19		44,822	29
Texas Tech University at Lubbock	ICE in Agriculture Genomics and Biotechnology	1	13	50,000	13		50,000	20
Texas Tech University at Lubbock	National Institute for Renewable Energy		17	59,853	13		72,931	20
University of Houston System								
University of Houston	Cell Signaling		121	79,050	104		71,798	158
University of Houston	Superconductivity		22	70,909	22	6	72,933	43
University of North Texas System								
University of North Texas Health Science Center	Center for Commercialization of Fluorescence Technology	1	4	121,500	4	9	31,237	20
University of Texas System								
University of Texas at Austin	Neuroscience Imaging Center		22	187,466	22	18	72,410	61
University of Texas at Dallas	Texas Analog Center of Excellence		68	202,809	32		71,183	49
University of Texas at El Paso	Integrated 3D Systems Technology		6	112,611	6	10	43,589	24
University of Texas at El Paso	Center for Inland Desalinization Systems		4	152,710	4	2	73,243	9
University of Texas at San Antonio	Institute for Cyber Security Research	1	35	215,282	8		82,486	12
University of Texas at Tyler	TxAire	1	37	55,138	37	41	55,138	119
University of Texas Health Science Center at Houston	Alliance for NanoHealth	1,2	100	300,000				
University of Texas Health Science Center at Houston	Center for Translation Injury Research		65	95,489	59		97,838	90
University of Texas Health Science Center at Houston	Texas Therapeutics Institute		8	188,333	8		106,666	12
University of Texas Health Science Center at Houston	Children's Regenerative Medicine		2	125,000	2	31	172,810	50
University of Texas System	Southwest Academy for Nanotechnology		70	232,274	70	23	49,613	141
Totals & Averages			712	\$ 122,574	506	200	\$ 69,179	1073

Notes:

1. Award Agreement expired.
2. Entity did not report job information for fiscal year 2012.

APPENDIX D: PROJECT DESCRIPTIONS

Incentives for Commercialization Activities

1st Detect Corporation

TETF Award Amount: \$1,800,000

Award Date: March 30, 2010

Region: Central Texas

Higher Education Collaboration: University of North Texas

Intended Outcome:

1st Detect is developing a prototype ion trap as well as relevant device software. The company also aims to demonstrate the effects of detector amplifier and calibration hardware. The State's investment went primarily toward finalizing product design and creating working beta models for testing and demonstration.

Actual Outcome:

The company completed all contractual milestones and has since been awarded two key patents for operating, a mass spectrometer ion trap used for chemical detection and identification. The company launched its first commercial product, the MMS-1000™, in March of 2012.

21-Century Silicon, Inc.

TETF Award Amount: \$3,500,000

Award Date: January 30, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

21-Century Silicon was developing a process to produce silicon for use in solar cells at half the cost of conventional suppliers. The State's investment went primarily toward completing final-stage assembly of a silicon furnace, defining optimal operating parameters, integrating the furnace with necessary components and beginning a sample manufacturing process.

Actual Outcome:

The company installed a furnace and demonstrated an ability to produce quantities of solar-grade silicon. The Office of the Governor subsequently sent a letter demanding repayment of the disbursed Award pursuant to the terms of the Note, as defined in the Agreement, for failure to continue commercialization efforts and for failure to provide the required annual Compliance Verification Report. The Office of the Governor referred the matter to the Texas Office of the Attorney General.

2Cimple, Inc.

TETF Award Amount: \$1,500,000

Award Date: June 1, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

2Cimple is developing online video advertising software that expands interactivity within the online video and can be used for targeted advertising and marketing. The State's investment went primarily toward completing design and production of a prototype, which would then go through relevant field testing.

Actual Outcome:

The company has completed all contractual milestones. 2Cimple completed design and development of its interactive video advertising platform including an analytics and reporting engine. Additionally, the company developed a social media platform and field tested the technology with a Tier 1 technology firm. An interactive video trial with a major media company was also conducted. 2Cimple has a sponsored research agreement with The University of Texas at Dallas. In 2012, the company developed a successful campaign for a major university and is working with a major consumer products company on innovative enhancements of the company's technology. The company also developed a technology to support interactive video advertising on mobile platforms such as smartphones and tablets.

ActaCell, Inc.

TETF Award Amount: \$1,000,000

Award Date: October 5, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

ActaCell is developing high-power, rechargeable lithium ion batteries that can be produced at a lower cost than existing products for use in hybrid electric vehicles. The State's investment went primarily toward testing of the company's initial battery cell, development and testing of the initial battery pack, initiating third-party validation testing and contracting with an outside manufacturer for the production of pilot line cells.

Actual Outcome:

In June of 2012, the company merged with another early-stage, Venture Capital-funded battery company, Contour Energy Systems of Azusa, California. ActaCell's role in the combined entity is to continue to focus on rechargeable Li-Ion solutions that leverage its existing technologies. Specifically, this includes power cell chemistry that has been developed for the commercial Hybrid Electric Vehicle market, and to expand its focus into other power cell formats for other applications. The TETF received 83,600 shares of Contour Energy Systems' Series C Preferred Stock.

Advanced Receiver Technologies, Inc.

TETF Award Amount: \$250,000

Award Date: October 2, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Advanced Receiver was developing technology to improve cellular phone connectivity, reducing dropped calls and improving Internet access on the 3G cell network. The State's investment went primarily toward developing a single antenna interference cancellation device.

Actual Outcome:

The company successfully completed testing that indicated its antenna improved performance for users located on the edge of a cell, and raised \$2.3 million in grants and other funding. However, Advanced Receiver Technologies has since ceased operations. The Office of the Governor demanded repayment of the disbursed Award pursuant to the terms of the Note, as defined in the Agreement, for the failure to continue commercializing and for failure to provide the required annual Compliance Verification Report. The Office of the Governor referred the matter to the Texas Office of the Attorney General.

AdviTech, Inc.

TETF Award Amount: \$2,500,000

Award Date: March 24, 2009

Region: South Texas

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

AdviTech is developing technology for the treatment of spatial disorientation, vertigo and motion sickness. The company's software projects an artificial horizon on specially-developed lenses to control the sensory mismatches that cause motion sickness. The State's investment went primarily toward completing product design reviews, planning production with a manufacturer and delivering 20 of their motion units.

Actual Outcome:

The company was commercializing technology to treat spatial disorientation, vertigo, and motion sickness, successfully completing flight testing and prototype evaluation in 2009. The company sold two systems to the U.S. Air Force. In late 2010, three members of the management team came under investigation for embezzlement. The company is in caretaker status pending resolution of the criminal investigation.

Agile Planet, Inc.

TETF Award Amount: \$1,000,000

Award Date: April 2, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Agile Planet is developing universal operating software to improve human-robot collaboration by streamlining the control process across all robot types. The State's investment went primarily toward filing patents, releasing licensed software for commercial use, completing beta testing, expanding the management and development team, and completing an agreement with one major industrial robotics user.

Actual Outcome:

The company has completed all contractual milestones. Agile Planet released its RLX control software for robotics and has a contract with the world's largest industrial robot maker to deploy robots using the Company's software. In addition, Agile Planet signed contracts with major manufacturers and system integrators that will be deploying RLX-based robots. Agile Planet filed a patent application and also recently released Version 2.0 of RLX, which adds significant new functionalities to the original software. The company displayed its RLX-based robots at the PackExpo tradeshow in Las Vegas. All technical contract milestones have been completed and the company is actively marketing and selling its products.

AgileMesh, Inc.

TETF Award Amount: \$2,000,000

Award Date: May 25, 2010

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

AgileMesh is developing technology that provides portable, easily-deployable wireless communication for onsite video surveillance and security for law enforcement, tactical teams and first-responder units. The State's investment went primarily toward production of materials for testing, product design and an implementation report that identifies functionality and other components.

Actual Outcome:

The company produced materials for testing, completed the implementation report and initiated collaborative research with The University of Texas at Dallas (UTD). The Generation 2 technology was developed on schedule. It is currently going through the Federal Communications Commission certification process and is being demonstrated to

prospects domestically and internationally. The company's first sale of Generation 2-based products has been completed, with shipment planned for the end of the calendar year. The company signed up six international resellers. Additionally, the company is contracting with UTD – Department of Computer Science to perform a public domain mesh software study.

America Stem Cell, Inc.

TETF Award Amount: \$1,250,000

Award Date: May 27, 2009

Region: South Texas

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

America Stem Cell (ASC) is developing bone marrow transplant enzyme technology that allows the use of cord blood-derived stem cells, rather than waiting to find a compatible donor. The State's investment went primarily toward process development and manufacturing of the reagents that comprise ASC-101, the creation of a small research cell bank and to conduct toxicology studies required for ex vivo treatment of hematopoietic stem cells prior to infusion into patients.

Actual Outcome:

The company developed and initiated the manufacturing of sufficient quantities of ASC-101 for the first clinical trial in cancer patients at The University of Texas MD Anderson Cancer Center. ASC completed a toxicology study, submitted a drug master file to the Food and Drug Administration, and submitted and received orphan drug designation for the treatment of myeloablation in patients receiving hematopoietic stem cell transplant. The University of Texas MD Anderson Cancer Center planned to apply for permission to conduct cord-blood hematopoietic stem cell transplantation in patients with blood cancers in 2011. ASC applied for an Advanced Technology Small Business Technology Transfer Research (STTR) grant from the National Heart Lung and Blood Institute at the National Institutes of Health.

Analogix Development Corporation (Doing Business As Axelo, Inc.)

TETF Award Amount: \$250,000

Award Date: December 19, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Analogix Development Corporation, dba Axelo, Inc., is an intellectual property technology company focused on developing breakthrough solutions for the emerging 3D-motion-sensing market. The company's first patent and application of its technology was a 3D-movement-based game controller for the personal computer and gaming market. The State's investment went primarily toward the patent application, production engineering, production of 1,000 units for field testing and marketing, securing a major industry market relationship and completing market research for branding and placement.

Actual Outcome:

The company obtained its patent, produced the planned production quantity of 3D game controllers, and initiated field testing and marketing activities. The company is now focused on the development and commercialization of its technology in innovative applications throughout a wide spectrum of products. Axelo has generated income and focused its efforts on sports medicine applications, embedding its technology into sports headwear to provide a solution for traumatic brain injuries in contact sports. Axelo has received two letters of intent from major sports helmet and mouthpiece manufacturers to implant its intellectual property into their products. The company recently graduated from the Austin Technology Incubator.

Animal Innovations, Inc.

TETF Award Amount: \$1,000,000

Award Date: November 12, 2008

Region: West Texas

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Animal Innovations is developing technology that allows the safe and efficient administration of drugs to animals through its patented, back-filling syringe, ensuring that animals are not over- or under-medicated. The State's investment went primarily toward the creation of several prototypes, establishing large-scale test protocols and conducting testing at Cactus Feeders in Cactus, Texas. The company was also to complete the filing of all provisional patents.

Actual Outcome:

The company has established an office at the West Texas A&M University Enterprise Center and conducted system testing at Cactus Feeders. Animal Innovations has a collaboration agreement with Texas A&M University, and has received outside investment allowing it to finish developing and begin commercializing the Automated Injection Technology (AIT) device. The company has installed systems and is in discussions with an animal health product distribution company regarding distribution.

Apaxis Medical, Inc.

TETF Award Amount: \$600,000

Award Date: June 8, 2009

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

Apaxis is developing a device that will enable surgeons to implant heart-circulatory devices without the traditional need of a heart-lung machine. The State's investment went primarily toward manufacturing, preparation for a Food and Drug Administration application, establishing a marketing presence and completing all patent filings.

Actual Outcome:

Apaxis has continued to develop and test its novel surgical tools. The company has obtained US patents and is actively prosecuting a number of international patent applications. Apaxis completed acute animal studies and is progressing towards chronic studies.

AuricX Pharmaceuticals, Inc.

TETF Award Amount: \$1,000,000

Award Date: December 3, 2010

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

AuricX Pharmaceuticals is developing and commercializing novel anti-infectives to treat infections caused by Staphylococcus Aureus, Methicillin-Resistant Staphylococcus Aureus and other drug-resistant pathogens. Its current compound kills bacteria and makes the body's immune system more effective at warding off these pathogens. The State's investment went primarily toward the completion of the new compound, initiation of in vitro studies, and initiation of proof-of-concept in-vivo studies.

Actual Outcome:

The company completed all contractual milestones for the initial tranche of funding and was approved for an additional funding amount. The manufacturing of the compound for use in preclinical studies has been completed and in-vitro and proof of concept in-vivo studies have also been completed. A Pre-IND package has recently been submitted to the Food and Drug Administration.

Azaya Therapeutics, Inc.

TETF Award Amount: \$1,045,000

Award Date: July 28, 2009

Region: South Texas

Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

Azaya is developing technology to deliver cancer therapy drugs via a patented drug delivery system called Protein Stabilized Liposomes (PSL). The State's investment went primarily toward research to determine dosage range, as well as toxicology tests and filings necessary to secure Food and Drug Administration approval for further research.

Actual Outcome:

The company's lead product, AT-1123, is a new formulation of a marketed product, Taxotere® (docetaxel), that is approved for use in breast, lung, prostate, stomach cancers, as well as cancers of the head and neck. A Phase I clinical trial was completed and a report published. A Phase II clinical study is being planned. The Company also filed an Investigational New Drug application with the FDA on an emerging drug formulation. The study was conducted at The Mary Crowley Cancer Center in Dallas and Cancer Therapy and Research Center at The University of Texas Health Science Center at San Antonio.

Bauhaus Software, Inc.

TETF Award Amount: \$500,000

Award Date: July 5, 2006

Region: South Texas

Higher Education Collaboration: The University of Texas at San Antonio

Intended Outcome:

Bauhaus Software was developing Mytoons.com, a social site for 2D animation with free animation tools designed to encourage site participation and community sharing. The state's investment went primarily toward design, testing and implementation of the web site.

Actual Outcome:

The company launched Mytoons.com publicly after four months of private testing in March 2007. After some initial success, Mytoons.com did not generate sufficient revenue to continue operations, and the web site closed in 2009. The company subsequently ceased all operations in 2010.

Bellicum Pharmaceuticals, Inc.

TETF Award Amount: \$1,450,000

Award Date: September 27, 2007

Region: Gulf Coast

Higher Education Collaboration: Baylor College of Medicine

Intended Outcome:

Bellicum Pharmaceuticals is developing a therapeutic cancer vaccine based on research conducted at the Baylor College of Medicine. Bellicum's formula incorporates a pharmacologically-regulated switch, designed to generate a tougher and more potent immune response against cancer cells. The State's investment went primarily toward

completion of manufacturing and cell processing engineering runs for studies necessary for Food and Drug Administration approval. The company was then to begin clinical trials.

Actual Outcome:

The company completed a Phase I/II clinical study. Bellicum Pharmaceuticals is preparing to conduct a Phase II study. Results of the Phase I/II study exceeded expectations, with most patients responding to treatment in some way, and three experiencing a partial or complete objective response. Results were reported at the ASCo GU Oncology Symposium and at ASCO. A final study report is being prepared.

BetaBatt, Inc.

TETF Award Amount: \$500,000

Award Date: June 20, 2008

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

BetaBatt was developing a long-life, self-recharging battery that captures nuclear decay energy to power defense and medical applications. The State's investment went primarily toward establishing a production process with a semiconductor facility, creating and delivering a prototype to a major industry company, testing packaging, and continuing product development.

Actual Outcome:

The company obtained exclusive licensing rights to both betavoltaic and photovoltaic technology aspects from the University of Rochester. BetaBatt, Inc., has failed to demonstrate continued commercialization efforts, and produced no commercial BetaBattery™ product. The Office of the Governor demanded repayment of the disbursed Award pursuant to the terms of the Note, as defined in the Agreement, for failure to continue commercialization efforts, failure to provide the required annual Compliance Verification Report, and failure to accept and comply with the State's Notice of Purchase.

Bio2 Medical, Inc.

TETF Award Amount: \$1,000,000

Award Date: November 12, 2008

Region: South Texas

Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

Bio2 Medical is developing a temporary filter to trap potentially fatal blood clots before they reach a patient's lungs. The State's investment went primarily toward development of a clinical protocol, product design and creation of a prototype for use in initial testing.

Actual Outcome:

All contractual milestones have been completed. The company has raised \$26.6 Million. The First in Man clinical study was conducted in Colombia, the results will be published in the Journal of Vascular and Interventional Radiology (JVIR). During the last year the Company received a CE mark for the Angel Catheter, allowing the Company to sell the product in the European Union (EU). To support the EU sales activity, Bio2 Medical, Inc. formed a wholly owned subsidiary in the United Kingdom (UK), BiO2 Medical Ltd. The Company is setting up a distribution network in the UK to facilitate the marketing of the Angel Catheter. In addition, the Company is progressing on an Investigational Device Exemption with the FDA in the United States.

Biscotti, Inc. (formerly known as Wham!, Inc.)

TETF Award Amount: \$1,000,000

Award Date: February 25, 2009
Region: North Texas
Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Biscotti is developing technology that enables high-definition consumer video calling. The State's investment went primarily toward developing and testing system capabilities, and finalization of beta hardware and software for additional testing and regulatory approval.

Actual Outcome:

The company completed initial testing in 2009 and demonstrated the ability to capture, encode, transport, decode and display video in real time. In October 2010, Biscotti closed a round of funding from Palomar Ventures. The State's investment was converted into Common and Series A Preferred Stock. The new investment has allowed Biscotti to undertake additional hiring in the state and Biscotti is now selling its product.

Blue Box Health, Inc.

TETF Award Amount: \$1,000,000

Award Date: August 13, 2010
Region: Gulf Coast
Higher Education Collaboration: University of Houston

Intended Outcome:

Blue Box Health is developing a home-health disease management device that sends doctors key readings on the heart function and condition of patients at home after they've been discharged from the hospital. The State's investment went primarily toward securing a pilot agreement with a hospital, enrolling patients and manufacturing products for a National Science Foundation-sponsored pilot program.

Actual Outcome:

The company initiated a pilot program with a major hospital in 2012. Manufacturing of the BlueScale is in batch production. Blue Box Health has sponsored research ongoing at the University of Houston.

Bynari, Inc.

TETF Award Amount: \$1,500,000

Award Date: June 2, 2009
Region: North Texas
Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Bynari is developing messaging integration software to allow interoperability between all versions of Microsoft Outlook and third-party email providers, creating a seamless collaboration that promotes sharing and groupware functions. The State's investment went primarily toward product development and operational expansion.

Actual Outcome:

All contractual milestones have been completed. The company completed development and product expansion plans and launched its Bynari Collaboration Suite, a cloud messaging solution for businesses, services providers and the OEM market. Bynari's platform enables interoperability for users without having to purchase an exchange server, is scalable in size, and powers email and messaging systems in several countries. The company continues to commercialize and gain market share.

Calxeda, Inc. (formerly known as Smooth-Stone, Inc.)

TETF Award Amount: \$1,000,000

Award Date: July 1, 2009
Region: Central Texas
Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Calxeda is developing powerful, energy-conserving computer server technology. The State's investment went primarily toward adding to the company's research and development staff, validation testing and marketing to potential customers.

Actual Outcome:

The company has greatly increased its staff, completed validation testing and has successfully met contractual milestones. Calxeda raised \$48 million in venture-backed funding, and within the last year partnered with Hewlett-Packard Boston Limited, MapR Technologies, SCalalo and uCirrus. The company also launched the EnergyCore ARM system for cloud servers, introduced the world's first ARM-based server microprocessor and has made significant progress on product designs, including the first bicycle-powered ARM server. Calxeda has also established a subsidiary and distributor network in Asia and has joined the Linux foundation.

CardioSpectra, Inc.

TETF Award Amount: \$1,350,000

Award Date: May 25, 2006
Region: South Texas
Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

CardioSpectra is developing a cardiac Optical Coherence Topography (OCT) catheter that will provide diagnostic capabilities unavailable through existing technologies, leading to better prediction of heart attacks, along with detection, monitoring and treatment of diseases such as cancer and diabetes. The State's investment went primarily toward establishing operational engineering facilities and hiring qualified engineers, designers and professionals to develop a functional prototype.

Actual Outcome:

The company successfully completed milestones associated with the State's investment. In 2007, CardioSpectra was acquired by Volcano Corporation, which integrated the OCT catheter into its proprietary imaging system, for \$25 million in cash and an additional \$38 million available upon the achievement of certain milestones. The State's investment in CardioSpectra immediately returned \$2,277,792 in addition to common stock shares of Volcano Corporation that, at the time of this report, are valued at \$1,984,749. CardioSpectra was founded by Dr. Milner and Dr. Feldman, professors at The University of Texas at San Antonio.

Castle Biosciences, Inc.

TETF Award Amount: \$1,000,000

Award Date: March 11, 2009
Region: Gulf Coast
Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Castle Biosciences is a molecular diagnostic company, commercializing proprietary tests for rare cancers. The State's investment went primarily toward acquiring intellectual property rights from The University of Texas MD Anderson Cancer Center, purchasing specialized equipment, building product awareness and completing evaluation studies.

Actual Outcome:

The company licensed intellectual property for tests from MD Anderson and acquired the necessary laboratory equipment in 2008, completed evaluation studies and has built product awareness. Castle Biosciences acquired intellectual property for the use and development of a gene to detect metastases, thymoma test, and mesothelioma test technologies. The company has clinically-available tests for the detection of cancer and to determine if a patient has a high likelihood to respond to certain treatments. The company currently has four tests available for clinical use and is completing validation studies for another two that may be available for clinical use in 2013.

Chipotle Business Group, Inc.

TETF Award Amount: \$1,000,000

Award Date: February 2, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Chipotle Business Group Inc. is developing its patented water-testing technologies, which will reduce the time and cost of water testing. The State's investment went primarily toward the development of additional biological and chemical assays and the construction of an advanced optical instrument that will make up the company's initial product line.

Actual Outcome:

The company entered into four collaboration agreements with The University of Texas at Arlington (UTA). Proof-of-concept of an advanced optical instrument was completed in November 2010 and construction of a prototype instrument began immediately thereafter. Development of four additional biological assays, one complex chemical assay, and one multiple parameter biological assay was completed in April 2011 in addition to a comprehensive market analysis-completed by UTA researchers. The company has developed a working prototype instrument that can quantify complex chemical contaminants in water using its patented immunoassay technology. As of January 2012 the company has applied for final tranche ETF funding and is preparing for market introduction of approximately thirty different complex chemical parameters for emerging contaminants.

Cirasys, Inc.

TETF Award Amount: \$1,000,000

Award Date: July 16, 2012

Region: North Texas

Higher Education Collaboration: University of Texas at Dallas

Intended Outcome:

Cirasys is focused on the development of digital power control and conversion technology. The State's money went primarily toward implementation of the Cirasys IOL technology for specific applications, filing of provisional patents, and testing and evaluation for technological performance. Cirasys will invest in research and development for their products, hire additional members to the team and secure future investment for their digital power control and conversion technologies.

Actual Outcome:

Cirasys is currently developing a DC-DC conversion technology for boost, buck-boost, and buck PCB platforms, and pursuing contract milestones. Cirasys was named the most promising Energy & Clean Technology companies at the 9th Annual Rice Alliance for Technology & Entrepreneurship Energy & Clean Technology Venture Forum. It was also named a finalist for the inaugural TeXchange "One to Watch" award.

Codekko, Inc.

TETF Award Amount: \$1,500,000

Award Date: July 3, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Codekko is developing technology to improve the function and performance of computer servers by changing the compilation, execution and delivery of web-based applications, improving performance, scalability and delivery speed by up to 10 times. The State's investment went primarily toward product development.

Actual Outcome:

The company completed design and programming specifications for several of its products, collaborated with The University of Texas at Dallas and released their first product in Dec 2011. The company has netted over \$600,000 worth of sales. Codekko will began its Ekko Express for Java development cycle in early-to-mid 2013 and expects to take approximately 6-7 months to complete.

Corhythm Inc.

TETF Award Amount: \$3,113,000

Award Date: October 1, 2010

Region: South Texas

Higher Education Collaboration: The University of Texas at San Antonio & The University of Texas Health Science Center at San Antonio

Intended Outcome:

Corhythm is developing an implantable treatment for atrial fibrillation that detects early onset of atrial fibrillation, restores normal sinus function and delivers targeted pharmacotherapy. The State's investment went primarily toward selection of anti-arrhythmic pharmacological agents, developing prototypes and completion of proof-of-concept studies to lead to clinical studies.

Actual Outcome:

The company has completed selections of anti-arrhythmic pharmacological agents for analysis, created a prototype of the drug delivery system, is continuing work on a prototype to monitor multi-electrode recordings and is in progress with proof-of-concept studies.

CorInnova, Inc.

TETF Award Amount: \$500,000

Award Date: May 31, 2006

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

CorInnova is developing a heart therapy device licensed from Texas A&M University that promises to reduce instances of congestive heart failure by at least 60 percent in patients who have suffered a severe heart attack. The State's investment went primarily toward developing prototypes, preparing for clinical trials, seeking Food and Drug Administration pre-market approval and taking steps toward commercial sales.

Actual Outcome:

The company's heart therapy device to treat congestive heart failure is targeting the treatment of end-stage congestive heart failure patients who may need a heart transplant. CorInnova has developed the CardiacSTAR™, a minimally invasive, direct-cardiac compression device that restores normal cardiac motion through the application of gentle pressure. CorInnova has successfully manufactured prototypes of the device, leading to improved designs and four approved U.S. patents. The company is presently pursuing pre-clinical development of the device, and continues to work with Texas A&M University.

Cormedics Corporation

TETF Award Amount: \$750,000

Award Date: September 18, 2008

Region: Gulf Coast

Higher Education Collaboration: Texas Heart Institute

Intended Outcome:

Cormedics is developing a minimally-invasive instrument that provides safe access to the pericardial cavity around the heart for quick delivery of drugs and other therapeutic procedures. The State's investment went primarily toward completion of pig cadaver studies, contracting with designers and developing precise product plans and filing necessary patent applications.

Actual Outcome:

Cormedics designed, prototyped, and tested the final form of the Company's PeriPort product, and filed for a trademark. The company also filed additional patent applications and successfully raised matching funds. Cormedics is conducting strategic talks with other companies focusing on the PeriPort and an ancillary product.

CryoPen, Inc.

TETF Award Amount: \$2,000,000

Award Date: August 6, 2008

Region: South Texas

Higher Education Collaboration: The University of Texas Health Science Center at Houston

Intended Outcome:

CryoPen is developing a device that provides doctors with a simple, non-invasive and effective means to perform cryosurgery, a surgical technique that uses freezing to destroy unwanted or harmful tissue. The State's investment went primarily toward design and testing of a prototype and a market-ready device.

Actual Outcome:

The company completed the commercial design for manufacturing of their gynecological device, CT2000. Ready-to-sell GYN systems have been approved by the Food and Drug Administration and sales have begun.

DataInfoCom USA, Inc. (Doing Business As Ayata, Inc.)

TETF Award Amount: \$1,600,000

Award Date: July 12, 2010

Region: North Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

DataInfoCom USA is developing software that enables enterprise customers to predict future outcomes of their critical business processes, prescribe decision options, and understand the impact of each decision option. The State's investment went primarily toward the release of an improved version of DataInfoCom's software, OMYSYS, with an interactive graphic user interface and neural networks. The company was to build its customer base through a marketing campaign and generate revenue.

Actual Outcome:

The company met its technological and revenue milestones in association with the State's investment, and upon receipt of the second tranche will fill key positions in its management team to pursue additional equity financing. The company has rebranded into AYATA and recently signed a partnership agreement for product representation and sales within the defense industry and other government entities. Its software, Ayata 4.0, is currently being used by leading companies such as Dell, Cisco, and Microsoft.

DentLight, Inc.

TETF Award Amount: \$250,000

Award Date: July 7, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

DentLight is developing advanced treatment and diagnostic technology that integrates LEDs, advanced optics and digital electronics into devices to improve and advance the care of dental patients. The State's investment went primarily toward the development and launch of the FUSION II Curing Light and the Exam Light, securing international intellectual property rights, as well as private funding and collaborating with a university. The company was to expand its management, sales and marketing teams.

Actual Outcome:

The company developed several products, including FUSION II and Exam Light, both of which have received high clinical ratings in the dental industry. The company secured patents and private funding, and collaboration with The University of Texas Health Science Center at San Antonio is ongoing. The company has also introduced a new product to market, their SafeLoupe laser filter.

DEP Shape Memory Therapeutics, Inc.

TETF Award Amount: \$1,000,000

Award Date: August 3, 2009

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

DEP Shape Memory is developing technology to improve the treatment of cerebral aneurisms, allowing surgeons a less-invasive method of delivering treatment directly to the aneurism through a catheter. The State's investment went primarily toward developing a plan to gain Food and Drug Administration approval, implementing a global intellectual property strategy, and establishing research facilities in the Biomedical Engineering Department at Texas A&M University.

Actual Outcome

The company developed an intellectual property strategy and has secured patents, both issued and pending. The company has office and laboratory space at the Biomedical Engineering Department of Texas A&M University, and the equipment necessary for prototype fabrication is currently operational. The company recently launched efforts to find office and laboratory space off campus from Texas A&M University to establish a facility necessary for device fabrication for clinical trials and expanded their management team.

DeviceFidelity, Inc.

TETF Award Amount: \$3,000,000

Award Date: October 7, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Device Fidelity is developing technology that enables secure payment transactions via mobile phone. The State's investment went primarily toward the development and commercial production of the software, as well as efforts to secure financial agreements with a financial institution, payment network, vendor, sales channel partner and a development partner.

Actual Outcome:

The company was granted a Mobile Near Field Communication (NFC) patent in May 2011 and now has 28 patents. Device Fidelity was chosen by Isis to power the Isis NFC mobile wallet. The product has Visa approval worldwide and has gained MasterCard approval to launch MasterCard versions. The company has customers utilizing the product both in the US and internationally, and has completed all contractual milestones. In addition, the company expanded applications for mobile payments, tag read/write and peer-to-peer information exchange, as well as the world's first multi-platform mobile wallet for the iPhone, Android and RIM devices.

Diabetica Solutions, Inc.

TETF Award Amount: \$1,000,000

Award Date: May 25, 2006

Region: South Texas

Higher Education Collaboration: The University of Texas at San Antonio

Intended Outcome:

Diabetica Solutions was developing a dermal thermometer that will help patients with diabetes monitor their limbs for possible problems, helping prevent amputations due to the disease. The State's investment went primarily toward establishing contract manufacturing for the device, expanding the management team and securing one additional major customer. The company was working to bring another product, the GlideSoft insole, into compliance with new Medicare guidelines.

Actual Outcome:

The company reached agreements with contract manufacturers for the TempTouch thermometer. In 2007, the Company completed follow-on financing of \$4 million. Diabetica has secured a second major customer and completed modifications on the GlideSoft insole. Company management presented TempTouch to the Center for Medicare and Medicaid Services (CMS) for Medicare patient reimbursement, stressing its high level of effectiveness at preventing diabetic ulceration and amputation. However, CMS did not rule in the company's favor, and this has had a serious impact on the company's ability to grow without requesting more funding. The Company is in the process of selling retained inventory and operations are limited to licensing agreement requirements.

DNATrix, Inc.

TETF Award Amount: \$500,000

Award Date: December 1, 2008

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

DNATrix is developing a genetically-altered virus that is expected to safely and effectively target and attack up to 95 percent of all cancers. The State's investment went primarily toward drug development, as well as the recruitment of a full-time CEO. The company was to secure additional funding and begin patient enrollment for clinical trials and conduct a Phase I clinical study of company's first product, Delta-24-RGD.

Actual Outcome:

The company completed all contractual milestones. DNATrix, Inc. acquired Vector Logix, Inc., a privately-held biotechnology company, merging the two companies' complementary intellectual property portfolios. The company also completed enrollment of the A arm of its Phase I clinical study, currently under way at MD Anderson Cancer Center, for treatment of high grade glioma. In addition, an investigator-sponsored clinical trial involving the enrollment of 21 patients has taken place at the University of Alabama at Birmingham (UAB) Comprehensive Cancer Center. The trial was designed to investigate the feasibility and utility of intraperitoneally-administered DNX-2401 for patients with recurrent epithelial ovarian cancer.

Endothelix, Inc.

TETF Award Amount: \$1,000,000

Award Date: July 18, 2006

Region: Gulf Coast

Higher Education Collaboration: The University of Texas Health Science Center at Houston

Intended Outcome:

Endothelix is developing diagnostic technology that will allow physicians to more accurately, quickly and inexpensively assess a patient's cardiovascular health. The State's investment went primarily toward conducting and evaluating all clinical trials necessary to obtain Food and Drug Administration (FDA) regulatory approval. Following approval, the company would work to design and manufacture the initial product and begin sales. At that point, additional capital would be sought and the management team would be expanded.

Actual Outcome:

The company received FDA approval in September 2007, and raised additional capital in 2008 and 2009. Commercializing technology was discovered at The University of Texas Health Science Center at Houston, the company's home version of its product is currently marketed and continues to be sold via website throughout the United States, Europe and Canada. The company intends to submit a research grant proposal to the NIH to test its VENDYS® product. All contractual milestones have been completed.

Ensysce Bioscience, Inc.

TETF Award Amount: \$1,500,00

Award Date: June 1, 2010

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

Ensysce Biosciences is developing carbon nanotube technology as a delivery platform for cancer therapeutics. The State's initial investment was designated to support leasing lab space, hiring personnel and completing a pilot study to evaluate toxicity in an animal model. The second tranche of funds was designated to support additional studies to identify a final product to carry through to clinical evaluation. Once an optimized product is identified, the second tranche of funds will also support the GLP toxicology testing of this material in one animal species and the GMP manufacture of material for the future clinical trial in humans.

Actual Outcome:

The company leased a laboratory, hired two research scientists, one of which has project management experience and completed the initial toxicity study in animals. This toxicity study allowed the company to move forward with additional testing. Laboratory studies are ongoing to optimize the product. The company, which collaborated with The University of Texas MD Anderson Cancer Center and Rice University, is continuing its collaborations with nanotube experts at Rice University. The Company continues to refine and optimize an initial drug candidate before pursuing GLP toxicology testing and GMP manufacturing.

Enthuze, Inc.

TETF Award Amount: \$1,650,000

Award Date: February 18, 2009

Region: South Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Enthuze is developing new research methods for data-mining tools and a next-generation social networking platform available online and on mobile devices. The State's investment went primarily toward developing a platform for beta

testing, with additional goals of loading the platform online for client testing and using test results to further improve the product.

Actual Outcome:

The company created a beta version that underwent integration, function, and stress and load testing, before being further tested in environments hosted by Amazon and Slicehost. Based on these tests, improvements were incorporated into an updated version. Enthuze completed an initial collaboration with The University of Texas at Austin and is now collaborating with Southern Methodist University. The company lost a major customer in 2011, but has converted its software platform to be used in online dating market verticals. All contractual milestones have been completed.

Environmental Quality Management Associates, Inc.

TETF Award Amount: \$250,000

Award Date: November 4, 2008

Region: North Texas

Higher Education Collaboration: Texas A&M AgriLife Research

Intended Outcome:

EQMA is developing technology that transforms waste from Confined Animal Feed Operations (CAFO) into fermentable sugars for alternative fuel sources. The company's business plan is to develop the technology and process, and then license it to outside parties while providing a consulting role. The company plans to build small plants near CAFO to utilize manure production. The State's investment went primarily to engineering developments, process establishment, and cost and revenue analysis.

Actual Outcome:

EQMA has transferred macro quantities of both industrial and animal feed operations waste into ethanol fuel. The company modeled costs and revenue projections, and completed engineering schematics depicting the process flow. EQMA has retained a firm to engage in fundraising activities for a plant with a minimum capacity of 1 million gallons per year, using poultry waste as the primary feedstock. The poultry waste has been sourced, a contract for the material has been negotiated, and a building and ground lease has been obtained.

Falcon International, Inc.

TETF Award Amount: \$850,000

Award Date: October 23, 2007

Region: West Texas

Higher Education Collaboration: The University of Texas of the Permian Basin

Intended Outcome:

Falcon International is developing composite ballistic panel technology for armor plating. The State's investment went primarily toward building a manufacturing facility, hiring the management team, obtaining National Institute of Justice certification and beginning full-scale production and rollout.

Actual Outcome:

The company completed a manufacturing facility in Odessa in 2008, secured further financing and completed the management team later that year. Falcon also secured National Institute of Justice certification and is currently testing and preparing for full production. Falcon is working with a multi-national joint venture partner, supplying the Falcon Talon Ballistic System. A strategic partner will be awarded an SBIR from NAVSEA, to which Falcon will provide services and manufacturing.

Faradox Energy Storage, Inc.

TETF Award Amount: \$1,000,000

Award Date: October 30, 2008
Region: Central Texas
Higher Education Collaboration: Texas State University

Intended Outcome:

Faradox is developing high-performance electrical capacitors. The State's investment went primarily toward manufacturer contracting, construction of sample capacitors, obtaining third-party performance validation and the delivery of the first set of commercial capacitors to a customer.

Actual Outcome:

Faradox constructed sample capacitors, acquired third party test data, made its first commercial sale and continues to develop customer relationships. The company has subsequently licensed its intellectual property to an electronics components company and sold all its physical assets. Faradox remains operational for the purposes of processing royalty revenue pursuant to the license agreement.

Fe3 Medical, Inc.

TETF Award Amount: \$2,841,000

Award Date: October 1, 2010
Region: South Texas
Higher Education Collaboration: University of Texas Health Science Center at San Antonio

Intended Outcome:

Fe3 Medical is creating a trans-dermal drug delivery system to combat anemic iron-deficiency without damaging the skin. A dual-patch device will safely pass a non-toxic iron formulation across the skin to increase iron levels within the body. The State's investment primarily went to prototype development and pre-clinical testing of the product.

Actual Outcome:

The company has completed the selection of iron compound candidates, created a dual-path device and generated positive pre-clinical efficacy data. Fe3 Medical successfully tested a transdermal patch in-vivo for burning and local inflammation and in-vitro for burning. The company successfully completed an in-vitro proof of concept in porcine skin, and the company completed an in-vivo proof of concept porcine study. The company hired a senior chemist to develop the delivery solution and efficacy factors. All contractual milestones have been completed.

FibeRio Technology Corporation

TETF Award Amount: \$1,500,000

Award Date: August 24, 2010
Region: Tropical Texas
Higher Education Collaboration: The University of Texas-Pan American

Intended Outcome:

FibeRio is developing technology to manufacture nanowires, nanofibers and nanotubes without the use of electrostatic force, allowing for simpler and more versatile nanofiber production. The State's investment went primarily toward completing product design and testing, establishing manufacturing operations and completing initial sales.

Actual Outcome:

All contractual milestones have been completed. The company developed its first commercial model targeting advanced research markets. Initial sales have been completed and the company is expanding its collaboration with international research centers. Manufacturing operations and application labs, including equipment and personnel, have been established in Texas. In addition, industrial-scale product-model designs were completed and the product has been built. The company initiated a customer service and quality plan, and both lab and industrial systems are

being demonstrated for customers. Nanofiber samples are being produced for a large number of prospective customers. An industrial-scale model has been ordered.

Firefly LED Lighting, Inc.

TETF Award Amount: \$3,000,000

Award Date: November 23, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Firefly is developing into a large and growing company providing Light Emitting Diode (LED) lighting products to customers in North America. Firefly has created a line of LED replacement lamps and fixtures with an innovative thermal solution. These LED lamps replace incandescent and compact fluorescent bulbs with solid-state electronics devices. LED lights produce greater light output with an 80 percent reduction in energy costs and a five-time increase in life span. The State's investment is going to product production, patent filing, marketing and future developments.

Actual Outcome:

The company met initial milestones and has been awarded second tranche funding. The company developed a customer base, applied for patents, expanded commercialization, developed new products and is seeking follow-on funding. Firefly LED Lighting products are available for sale.

Genprex, Inc. (formerly known as Convergen Lifesciences, Inc.)

TETF Award Amount: \$4,500,000

Award Date: August 13, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Genprex is developing nanomolecular therapies that target cancer cells without harming normal cells. The State's investment went primarily toward initiating a toxicology study with The University of Texas MD Anderson Cancer Center, preparing for clinical trials, obtaining Food and Drug Administration approval for further testing and finalizing product formulation for trials.

Actual Outcome:

The company and MD Anderson Cancer Center completed and published the Phase I clinical trial testing CNVN202 (Oncoprex) in late stage lung cancer patients. The company and MD Anderson Cancer Center completed pre-clinical studies in support of a future Phase I/II clinical trial, submitted information from the studies and other information in a clinical trial protocol to FDA in support of the referenced trial and received approval to conduct the clinical trial testing Oncoprex in combination with erlotinib in late stage lung cancer patients. Under contract with a GMP manufacturer, the Company produced GMP materials for use in the proposed clinical trial.

Gradalis, Inc.

TETF Award Amount: \$1,750,000

Award Date: February 19, 2009

Region: North Texas

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Gradalis is developing targeted therapeutic drugs to fight cancer. The State's investment went primarily toward developing a manufacturing facility, entering into collaborations with the UNT Health Science Center at Fort Worth

and Texas A&M University for testing and research, as well as preparing to apply for Food and Drug Administration approval for further testing.

Actual Outcome:

The company has completed initial studies and has entered into collaborations with UNT Health Science Center at Fort Worth, Department of Lab Animal Medicine, for testing and research. Gradalis has been approved by the Food and Drug Administration for further testing. The company is conducting five clinical trials with its suite of drugs in diverse disease indications.

Halsa Pharmaceuticals, Inc.

TETF Award Amount: \$1,000,000

Award Date: December 19, 2007

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Halsa Pharmaceuticals is developing therapeutics for the treatment of obesity, diabetes, cancer cachexia and other metabolic diseases. The State's investment went primarily toward product development and initial testing using the therapeutic agent.

Actual Outcome:

The company has successfully produced therapeutics that have been purified by Food and Drug Administration-approved methods, and has completed non-clinical and long-term effect studies. Halsa is continuing to develop its lead compound for treatment of obesity and diabetes.

Hanson Robotics, Inc.

TETF Award Amount: \$1,500,000

Award Date: October 18, 2006

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Hanson Robotics is developing technology that creates more lifelike robots, both in appearance and speech recognition, for use in the entertainment industry and potentially as prosthetic devices. The State's investment went primarily toward designing, developing, and completing the first prototype. The company was then to raise additional capital and begin making sales.

Actual Outcome:

The company completed design of the HumanKind product, and sold robots to customers around the world, particularly universities. Sales steadily increased and the robots are sold internationally. All contractual milestones have been completed.

HeatGenie, Inc.

TETF Award Amount: \$1,000,000

Award Date: November 5, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

HeatGenie is developing self-heating food packaging that allows customers to heat the contents of a container at the push of a button. The State's investment went primarily toward creation of a prototype, establishment of a collaborative agreement with a commercial partner and the strengthening of the company's patent portfolio.

Actual Outcome:

The company partnered with an industry-leading metal container manufacturer to produce and market containers suitable for prepared foods and beverages and is negotiating with a consumer products company to manufacture the heater. The company has four U.S. patents pending and plans to file additional foreign patents. HeatGenie has had its first small sales of samples to the U.S. Army and is seeking licensing agreements with food brands. The company secured a license to sell up to 5 million self-heating packages to a European company, and is raising additional capital from private investors.

Ideal Power Converters, Inc.

TETF Award Amount: \$1,000,000

Award Date: October 1, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Ideal Power Converters developed and patented a new electronic power converter technology for photovoltaic inverters and other applications. The State's investment went primarily toward prototype design and development, industry certification, commercial production and company staffing.

Actual Outcome:

The company met its initial milestones and was awarded second tranche funding. IPC sold and installed five early commercial inverters at UT-San Antonio, completed industry certifications and the company has sold and shipped its products.

iLearning Gateway, Inc.

TETF Award Amount: \$1,000,000

Award Date: August 7, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

iLearning Gateway developed tutoring software for K-12 students that provides affordable, one-on-one, web-based tutoring in a variety of subjects. The State's investment went primarily toward launching iLearning's product in Texas, identifying new features, exploring alternative sources of revenue and conducting advanced product promotion.

Actual Outcome:

The company has completed product development with new research-based features fully implemented and has adapted it for use in Texas and other states.. iLearning Gateway has launched the product in Texas and also succeeded in identifying key partners for conducting advanced product promotion. All contractual milestones have been completed.

Image Trends, Inc.

TETF Award Amount: \$1,000,000

Award Date: May 15, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Image Trends is developing digital photography software products that efficiently copies film to high-definition DVD and automatically corrects visual flaws. The State's investment went primarily toward continuing product development, securing partnerships with major technology companies and launching Image Trends' products in the U.S. and Japan.

Actual Outcome:

The company cancelled the launch of the retail boxed version of its products due to a lower forecast return and an increase in required capital and investment in finished goods. The company completed the port of the software applications for the Macintosh platform. Additionally, the company completed the development and launch of the Japanese language version of the SensorKleen Pro product.

Interoperate.biz, Inc.

TETF Award Amount: \$1,000,000

Award Date: July 9, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Interoperate.biz is developing software that rapidly translates computer language from obsolete legacy code to modern language, reducing the time and cost associated with translation. The State's investment went primarily toward completing the company's initial translator program and developing a beta version for testing. Interoperate was also to generate orders and begin collecting revenue.

Actual Outcome:

The company is generating revenue and met its revenue-related contract milestones to receive their third tranche of funding from the State of Texas. The company successfully obtained revenue and orders of more than \$800,000. Interoperate.biz is currently developing its third translator program for the mobile phone market segment, to automatically convert Apple iOS apps to Android apps.

InView Technology Corporation

TETF Award Amount: \$1,500,000

Award Date: August 24, 2010

Region: Central Texas

Higher Education Collaboration: Rice University

Intended Outcome:

InView is developing high-performance cameras with non-visual infrared, ultraviolet and terahertz capabilities, with applications ranging from surveillance and security to food and drug inspection. The State's investment went primarily toward developing an initial prototype and demonstration, establishing a working laboratory for product development and evaluation, and collecting performance data.

Actual Outcome:

The company established its lab and developed the initial prototype and demonstrated it to several evaluators in March 2010. The company secured a number of R&D contracts from the federal government and major system companies. InView was issued a fundamental patent for its compressive sensing technology, and initial products were shipped in the second half of 2012. The company also raised additional capital in a Series B financing.

Iridescent Networks, Inc.

TETF Award Amount: \$1,000,000

Award Date: July 19, 2010

Region: North Texas
Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Iridescent Networks is developing software to allow high-quality video delivery over the Internet to any device at lower costs than currently available. The State's investment went primarily toward closing a contract with at least one customer for a trial in their labs and delivering its first customer product into a customer's lab. The company will also complete an extension to the sponsored research agreement with a Texas institution of higher education, and provide evidence of the collaborative research and product development.

Actual Outcome:

Iridescent Networks obtained a commitment from a key customer to conduct a lab trial, and has completed delivery of the product into their labs. The company collaborated with the University of Texas at Dallas (UTD), and is now looking at possible new Sponsored Research Agreements with universities. Iridescent purchased equipment for the media lab trial. The company has been engaged in marketing, business development, research and development, as well as delivery efforts for the product, and hired programmers, marketing and finance/admin personnel.

itRobotics, Inc.

TETF Award Amount: \$750,000

Award Date: July 5, 2006
Region: Gulf Coast
Higher Education Collaboration: Rice University

Intended Outcome:

itRobotics is developing pipe-inspection robots to enable the inspection of significant portions of pipe infrastructure, including gas, nuclear plant, power plant, and non-energy pipelines. The State's investment went primarily toward design completion, prototype development and testing, preliminary manufacturing and product marketing.

Actual Outcome:

The company's coiled inspection tubing products were made commercially available and have been generating revenues for the past two years. The company is building its 17th unit for deployment and showed revenue for its inspection equipment of more than \$1,640,000 for a 12-month period ending in March 2012. Modifications to the company's original design have been made in the areas of locomotion, sealing and sensor cart improvements.

JC Lads Corporation (dba Biometric Signature ID)

TETF Award Amount: \$550,000

Award Date: October 6, 2010
Region: North Texas
Higher Education Collaboration: The University of Texas System

Intended Outcome:

JC Lads is developing a Biometric Signature ID (BSI) using just a mouse, finger, touchpad or other pointing device. It measures what is written, as well as the way it is written, and is capable of identifying users as they log into their computers or smart devices. BSI will be used for online contracts as a truly personalized identifier. The State's investment went primarily to third-party testing, product development, lab extension and expansion of customer base.

Actual Outcome:

The company completed testing with a near-perfect level of accuracy, has two new customers, purchased equipment to further its ability to serve customers and is testing for further product/service development. The company's BioSig-ID authentication software is fully integrated into the Pearson eCollege learning management system of the EduKan

Consortium to increase academic integrity, comply with student ID verification regulations and reduce costs associated with physical proctoring. The company closed a Series A financing with Mohegan Biometrics, LLC, a subsidiary of the Mohegan Tribe of Indians of Connecticut. The company received a grant from the U.S. Department of Commerce to conduct work for secure online transactions in support of the National Strategy for Trusted Identities in Cyberspace. Central Texas College's Board of Trustees approved the use of the company's technology to verify the identities of students who take this Texas Institute of Higher Education's online courses.

KLD Energy Technologies, Inc.

TETF Award Amount: \$2,800,000

Award Date: December 3, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

KLD Energy Technologies is developing advanced electric propulsion and generation systems for high-frequency operations in many industries. The State's investment went primarily toward the expansion of the company's Austin facilities, hiring additional personnel, commercializing its electric propulsion system for its first application in the two-wheel electric vehicle market, and ongoing research and development.

Actual Outcome:

KLD Energy Technologies completed build-out of its Austin research, development and testing facility and hired additional personnel. The company signed collaborative agreements with the University of Texas Austin, and has researched, modeled, simulated and evaluated relative drive system performances. The company has also signed international licensing and customer agreements with minimum yearly order demand, and has begun to ship a finalized commercial version of its electric propulsion system. In addition, KLD has received inquiries and is in discussions with companies outside of the two-wheel electric vehicle space related to the following applications: 4-wheel electric vehicles, elevators, forklifts, air conditioning, pump, aviation, marine and wind energy generation. In support of its ongoing research and development efforts, the company has made domestic and international patent filings. KLD has raised over \$34 million of capital from approximately 250 investors to fund ongoing research and development and the commercialization of its electric propulsion system. \$18 million of the capital was raised subsequent to the TETF award in December 2010. All contractual milestones have been completed.

Laser Tissue Welding, Inc.

TETF Award Amount: \$160,000

Award Date: July 31, 2007

Region: Gulf Coast

Higher Education Collaboration: St. Luke's Episcopal Hospital

Intended Outcome:

Laser Tissue Welding is developing a laser-assisted tissue welding device that closes and repairs incisions without sutures or staples, leading to faster healing and better results. The State's investment went primarily toward continuing product design and development, gaining Food and Drug Administration approval of its device, purchasing equipment and manufacturing.

Actual Outcome:

The company is continuing development of its products. Its pilot and feasibility clinical study is enrolling patients and is nearing completion at the partnering institution, St. Luke's Episcopal Hospital. Laser Tissue Welding operates a 1100-square-foot facility in Humble, TX.

LaserGen, Inc.

TETF Award Amount: \$1,000,000

Award Date: September 16, 2009
Region: Gulf Coast
Higher Education Collaboration: Baylor University

Intended Outcome:

LaserGen is developing technology that can reduce the cost and time necessary for DNA sequencing. The State's investment went primarily toward demonstrating production-scale manufacturing feasibility and creating an operating plan that includes production timelines and cost-reduction initiatives.

Actual Outcome:

With Austin-based National Instruments, Inc., the company has developed instrumentation to demonstrate the improved accuracy of its proprietary chemistry for DNA sequencing. LaserGen is currently sequencing the E. coli genome. Production scale manufacturing processes have been established and approved, and will be used for larger-scale manufacturing. LaserGen continues to collaborate with the Baylor College of Medicine and Rice University, and is also completing a phase 1 SBIR from the Department of Defense to develop a portable sequencing technology for the field. Significant efforts for documentation and quality control of the company's compound manufacturing processes are underway. LaserGen closed a Series A-1 and a Series B financing round. The company was also recently featured in BioOptics World, was issued a patent and named a new CEO.

Leonardo Biosystems, Inc.

TETF Award Amount: \$2,500,000

Award Date: April 15, 2010
Region: Gulf Coast
Higher Education Collaboration: The University of Texas Health Science Center at Houston

Intended Outcome:

Leonardo Biosystems is developing a cancer treatment that targets small-molecule therapeutics to specific tissues on a molecular level. This targeted delivery potentially allows for the use of more powerful and effective chemotherapy drugs with fewer side effects. The State's investment went primarily toward optimizing the drug delivery system, completing initial trials, conducting toxicology studies and initiating production of materials with a contracted manufacturer.

Actual Outcome:

The company has published proof of concept for delivery of siRNA and resultant tumor suppression in two ovarian cancer models in mice, and continues to broaden the number and diversity of small molecules that it is able to deliver successfully in animal models of cancer. Collaborative work with Leonardo's particles continues at the Methodist Research Institute and The University of Texas MD Anderson Cancer Center. Leonardo has contracted with NanoMedical Systems, Inc., for production of materials.

MacuClear, Inc.

TETF Award Amount: \$1,700,000

Award Date: April 20, 2009
Region: North Texas
Higher Education Collaboration: Texas A&M University

Intended Outcome:

MacuClear is developing a proprietary drug to treat dry age-related macular degeneration (AMD), a major cause of blindness. MacuClear's drug is delivered through a topical eye drop that restores blood flow, and fosters normal cell function in the eye. The State's investment went primarily toward production of quantities of the drug and its delivery system, and a safety/proof of concept clinical trial in humans.

Actual Outcome:

The company contracted with Mystic Pharmaceuticals, another TETF portfolio company, to manufacture both the eye-droppers and the drug. Ora Clinical Research conducted clinical trials in August 2009, with results indicating the desired increase in blood flow with no side effects or discomfort. MacuCLEAR is currently enrolling patients in a Phase II/III clinical study for the treatment of nonexudative age-related macular degeneration.

Mayan Pigments, Inc.

TETF Award Amount: \$750,000

Award Date: July 25, 2008

Region: Trans Pecos

Higher Education Collaboration: The University of Texas at El Paso

Intended Outcome:

Mayan Pigments is developing cost-efficient, stable and adaptable pigments made with both organic and inorganic molecules that do not emit hazardous waste byproducts in the production process. The State's investment went primarily toward securing interested customers and seeking outside investors.

Actual Outcome:

The company has expanded its sampling of MayaCrom® pigments in a broad spectrum of market applications. Samples are out to customers, and the company continues to make progress in expanding commercial applications in paints, inks and coatings.

Merkatum, Corporation

TETF Award Amount: \$1,000,000

Award Date: November 10, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Merkatum is developing a fingerprint and facial recognition identity system useful for biometric identity management. The product is less expensive and easier to configure, deploy and maintain than those currently available in the marketplace. The State's investment went primarily toward commercial deployment, continued product improvement and efforts to secure additional investment.

Actual Outcome:

The company worked with the Austin Police Department on a series of projects through June 2009. In March 2009, Merkatum and IBM signed a three-year collaboration agreement to co-develop technology, and research assistance with the company has been provided by The University of Texas at Austin. Merkatum has improved and launched its advanced facial recognition identification system, and also closed on new project and program deals both domestically and internationally. The company's CEO was invited to be a keynote speaker at the EMEA Intelligence 2012 Conference held in Istanbul, Turkey.

MicroTransponder, Inc.

TETF Award Amount: \$1,380,000

Award Date: February 19, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

MicroTransponder is developing a wireless neurostimulation device to treat patients suffering from nerve damage due to diabetes. The State's investment went primarily toward design and production of a prototype for testing and steps toward securing Food and Drug Administration (FDA) approval and larger-scale trial studies.

Actual Outcome:

The company produced a prototype that proved effective in early testing. The final device design is being manufactured at Southwest Research Institute in preparation for biocompatibility testing. In June 2012, the company completed a proof of concept study designed to provide feasibility information on the clinical use of vagus nerve stimulation (VNS) paired with tones for the treatment of severe tinnitus. In August 2012, the FDA approved a second proof of concept study. The company has had several research papers published in industry publications and has nine Texas employees.

MicroZAP, Inc.

TETF Award Amount: \$1,500,000

Award Date: April 30, 2010

Region: West Texas

Higher Education Collaboration: Texas Tech University

Intended Outcome:

MicroZAP is developing technology that sterilizes food and kills bacteria, including MRSA (Methicillin-resistant Staphylococcus aureus). The State's investment went primarily toward designing and building a commercial prototype that would enable the company to conduct a trial with an industry partner, and to conduct research into its product with Texas Tech University.

Actual Outcome:

The company conducted commercial trials of the MicroZAP machine pursuant to the Technology Testing and Contingent Purchase Agreement with Southwest Regional Wound Care Center. The trial was successfully completed. Additionally, the company retrofitted the original Texas Tech University prototype with the patent-pending technology, coordinated by MicroZAP and fabricated by Scott Manufacturing, Inc.

Mirna Therapeutics, Inc.

TETF Award Amount: \$5,000,000

Award Date: November 11, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Mirna Therapeutics is developing a cancer treatment that introduces synthetic micro RNA, or miRNA, back into tumors to trigger their deaths. Research shows that the use of this therapy has reduced or eliminated cancerous tumors in mice. The State's investment went primarily toward performing initial studies and manufacturing clinical-grade material for further testing.

Actual Outcome:

The company developed mimics for miRNA, is making progress on a proprietary systemic delivery, and in obtaining new patents on treatments of different types of cancer. Mirna is in preparation for Phase 1 clinical trials, and, within the last year, closed a financing round, entered into a licensing agreement and published preclinical data.

Modria, Inc.

TETF Award Amount: \$500,000

Award Date: December 1, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Modria is developing supply-chain management software that allows a business to manage all stages of its supply chain efficiently and at a lower cost. The State's investment went primarily toward developing beta software for testing and customer validation, and partnering with an institute of higher education. The company was also to secure letters of intent from customers, raise \$1 million from outside investors and develop a detailed strategy.

Actual Outcome:

The company successfully worked with researchers at The University of Texas at Dallas' Department of Computer Sciences to develop domain specific language (DSL) to edit their plan with human logic and intelligence, demonstrating its stand-alone feasibility. In addition, Modria raised \$225,000 from outside investors and hired product management personnel to enhance and expand its product offerings.

Molecular Imprints, Inc.

TETF Award Amount: \$3,000,000

Award Date: May 30, 2006

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Molecular Imprints develops a technology product line for nanomanufacturing of devices and components with applications such as semiconductors, light-emitting diodes, disk drives, displays, digital cameras and biodevices. Potential markets are semiconductor memory and hard disk drives, with additional opportunities in displays, solar energy and nanopharmaceuticals. The State's investment went primarily toward the creation of a demonstration unit for use in sales, and obtaining customer feedback for future improvements.

Actual Outcome:

The company successfully completed its demonstration unit and closed the company's first sale. The company developed its proprietary technology into new product lines. The demonstration unit continues to be used as customers evaluate the technology and build their production processes around the tools of the new technology. Full production is expected in the 2013-2014 time frames. The company increased their manufacturing facilities for production and development functions. In September 2012, the company announced a multiple unit purchase order to provide advanced lithography equipment for high-volume semiconductor manufacturing. All contractual milestones have been completed.

Molecular Logix, Inc.

TETF Award Amount: \$794,520

Award Date: March 20, 2007

Region: Gulf Coast

Higher Education Collaboration: Baylor College of Medicine Faculty Center

Intended Outcome:

Molecular Logix is developing a cancer treatment using naturally-occurring growth hormones that block the cell receptors necessary for growth of tumor cells. The State's investment went primarily toward matching of a Small Business Innovation Research grant and directed the company to create a lead compound for testing prior to clinical trials. After Food and Drug Administration approval, the company was slated to seek further financing and complete further clinical trials.

Actual Outcome:

The company successfully completed development of its lead drug. The company developed its proprietary technology into new product lines. The technology continues to be evaluated by major customers as Molecular LogiX pursues development collaborations and builds production processes around the new technology.

Monebo, Technologies Inc.

TETF Award Amount: \$500,000

Award Date: October 23, 2006

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Monebo is developing heart-monitoring technology that enables patients to conduct their own electrocardiogram at home and wirelessly transmit the information to their doctor. The State's investment went primarily toward obtaining FDA market clearance, contracting with a qualified manufacturer in Texas, and launching sales.

Actual Outcome:

The company obtained 510(k) clearance from the Food and Drug Administration on its single-lead CardioBelt and was cleared to market its Automatic ECG Analysis and Interpretation Software Library. In 2012, the company partnered with Canadian startup CardioComm (TSX Venture Symbol:EKG) to provide Electrocardiography (ECG) analysis technology for automated heart rhythm and ECG analysis. All milestones have been completed.

Mystic Pharmaceuticals, Inc.

TETF Award Amount: \$1,568,000

Award Date: April 21, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas Medical Branch at Galveston

Intended Outcome:

Mystic is developing ophthalmic and intranasal delivery platforms for a wide range of drugs and biologics. Ophthalmic applications include macular degeneration (the leading cause of blindness in adults), glaucoma, dry eyes, allergy and infections. Nasal applications include pain management, anti-convulsives, hormones and vaccines for pandemic flu, anthrax, plague and other infectious diseases. The State's investment went primarily toward completing the installation of a system for product manufacturing, initiating the preliminary design of a larger commercial scale production system, completing testing of the ophthalmic delivery platform and preliminary testing of the intranasal delivery platform.

Actual Outcome:

The Company completed the build and installation of the MVP 50K Aseptic blister clinical production system in March 2010 at its Cedar Park, Texas facility. In addition, the Company commenced Phase I design of a MVP 300K Aseptic blister commercial production system in 2009. Also in 2009, the Company completed testing and optimization of the VersiDoser™ Ophthalmic Delivery Platform for clinical trials and initiated testing and optimization of the VersiDoser™ Intranasal Delivery Platform. With the approval of Texas ETF, and in accordance with FDA regulations, preparation and submission of Certified Good Manufacturing Practices (cGMP) was deemed unnecessary for cGMP manufacturing of clinical supplies. Mystic subsequently successfully engaged in a Phase I clinical trial in conjunction with a partner and manufactured the clinical supplies at its Cedar Park facility under cGMP protocols.

Nano Medical Systems, Inc.

TETF Award Amount: \$3,500,000

Award Date: September 30, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas Health Science Center at Houston, University of Texas at Austin

Intended Outcome:

Nano Medical Systems is developing a personalized therapy device to be implanted under the skin, using nanotechnology on a silicon chip to regulate drug flow. The State's investment went primarily toward forming a university collaboration to determine drug flow data, engineering the nanochannel drug delivery device, meeting with Food and Drug Administration (FDA) representatives for an Investigational Device Exception, and identifying a pharmaceutical partner.

Actual Outcome:

The company worked with researchers at University of Health Science Center Houston and fabricating partner SVTC Technologies in Austin to complete the first molecular flow data using nanochannel chips produced in December 2008. Multiple laboratory and animal tests have been completed at The Methodist Hospital Research Institute in Houston. In late 2008, the company had initial meetings with the FDA, resulting in a drug selection refinement and a need for a pharmaceutical partner. Nano Medical Systems signed a development and supply agreement with a pharmaceutical partner for the development of a hormone-replacement product.

Nano3D Biosciences, Inc.

TETF Award Amount: \$1,000,000

Award Date: May 20, 2010

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

Nano3D is developing 3D in-vitro cell culturing, which will have significant implications for life science research and development, as well as applications in drug discovery, toxicology and regenerative medicine. The State's investment went primarily toward production plans for the product line and completion of beta testing. The company was also to establish its first commercial sale.

Actual Outcome:

The company completed its first commercial sale and has reached a large customer base of major commercial partners. Nano3D introduced additional cell-culturing products since first commercializing the original "single-well" Bio Assembler kit, and announced a 24-well platform. The company formed a partnership with Funakoshi Japan to distribute its products in Japan, signed another distribution agreement with MIDSCI, and continues to evaluate other potential distribution and licensing partnerships. The company, which raised equity financing and received multiple federal grants, continues to collaborate with the MD Anderson Cancer Center, Rice University and University of Texas Health Science Center at Houston. Nano3D was recently featured in MIT Technology Review.

NanoComposites, Inc.

TETF Award Amount: \$1,500,000

Award Date: September 20, 2006

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

NanoComposites, Inc. is developing high-performance materials employing nanotechnology. The State's investment went primarily toward completing a Houston-based laboratory, conducting research, determining scaling feasibility and producing prototypes and recruiting. The company also was to partner with an o-ring manufacturer and commence sales.

Actual Outcome:

The company conducted research, determined scaling feasibility and completed prototypes of four different types of elastomer seals. NanoComposites executed two joint development agreements with corporate partners, and started generating revenue. As of August 10, 2012, the company exhausted its financial resources and did not raise sufficient capital for ongoing operation. At the time of this report the company is in discussions with a third party to acquire their assets.

Nanocoolers, Inc.

TETF Award Amount: \$3,000,000

Award Date: March 5, 2007

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Nanocoolers was developing a solid-state cooling system for improved system performance and power efficiency in refrigerators, air conditioners and other thermoelectric devices. The coolers were projected to save energy and eliminate the need for Freon-based chemicals. The State's investment went primarily toward the development of working prototypes and thermal packaging. A reliability test was to be completed by May 2007. Nanocoolers was also slated to begin the sales process and find a manufacturing partner.

Actual Outcome:

The company successfully completed prototype development by May 2007. However, citing technical problems and the need for more money, Nanocoolers informed the Office of the Governor in December 2007 that it had ceased business operations.

Nanospectra Biosciences, Inc.

TETF Award Amount: \$1,250,000

Award Date: June 12, 2006

Region: Gulf Coast

Higher Education Collaboration: Rice University, University of Texas Medical Branch, University of Texas at Austin, University of Texas MD Anderson Cancer Center, Baylor College of Medicine, University of Texas Health Science Center

Intended Outcome:

Nanospectra is developing a cancer treatment that selectively kills solid tumors without significantly damaging healthy tissue. The State's investment went primarily toward the filing of an Investigational Device Exemption with the Food and Drug Administration, as well as the beginning of a pilot clinical study.

Actual Outcome:

The company enrolled and treated eight patients in the pilot clinical study in head and neck cancer. In addition to its clinical activities, Nanospectra Biosciences, Inc. has successfully conducted preclinical animal research with collaborators at the University of Texas MD Anderson Cancer Center in radiation dose-enhancement, and joint research with the University of Texas at Austin for methods of imaging breast cancer. Nanospectra Biosciences, Inc. continues preclinical collaborations with the University of Texas MD Anderson Cancer Center in brain cancer research. The company is focusing on the completion of a prostate clinical study and the beginning of a lung cancer airway obstruction clinical study.

NanoTailor, Inc.

TETF Award Amount: \$250,000

Award Date: March 16, 2010

Region: Central Texas

Higher Education Collaboration: Texas State University

Intended Outcome:

NanoTailor was developing licensed technology from NASA to manufacture single-walled carbon nanotubes, without the use of a metal catalyst, for the aerospace, energy, defense, chemical manufacturing and pharmaceutical industries. The State's investment went primarily toward relocating staff to Texas, filing patents and finalizing design of the company's nanotube production machine.

Actual Outcome:

The company relocated employees and operations to Texas, filed patent applications and began work on the nanotube production machine. However, in December 2011, the Office of the Governor demanded full repayment of the award and ultimately referred the matter to the Texas Office of the Attorney General. NanoTailor filed for Chapter 7 bankruptcy in May 2012. The State filed a Proof of Claim in the bankruptcy.

Net Watch Solutions, Inc.

TETF Award Amount: \$500,000

Award Date: March 25, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Net Watch was developing a commercial software program to predict the consequences of information technology change, as well as methods for modeling the sources and causes of IT downtime. The State's investment went primarily toward recruiting key staff members, filing patent claims, conducting market surveys and beginning software development.

Actual Outcome:

In 2008, the company terminated agreements with The University of Texas at Dallas, and a lack of funding and revenue halted progress. The company has ceased operations and filed paperwork with the Texas Secretary of State's office to dissolve the corporation.

Net.Orange, Inc.

TETF Award Amount: \$1,900,000

Award Date: July 30, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas Southwestern Medical Center

Intended Outcome:

Net.Orange is developing software for health care providers to easily analyze, monitor and act on patient information for better medical care and treatment. The technology will initially be used to monitor oncology, diabetes and women's health issues. The State's investment went primarily toward accelerating development of the operating system, integrating the product into university acute care devices and expanding staff, board of directors and board of advisors.

Actual Outcome:

The company agreed to develop an oncology version of its system for use at the Mary Crowley Cancer Research Center, and also delivered a version to U.S. Oncology. As of September 2012, the company has increased its Texas-based employees to a total of 57. Net.Orange completed its collaboration with The University of Texas Southwestern Medical Center. In 2012, the company announced a significant distribution partnership of a clinical operating system (COS), a real-time, cloud-based data integration platform along with the industry leading population health management suite of applications. All contractual milestones have been completed.

Neuro Resource Group, Inc.

TETF Award Amount: \$1,500,000

Award Date: July 1, 2010

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Neuro Resource Group, Inc. (NRG), is developing a non-drug, post-operative and chronic pain management therapy, The InterX, that reduces pain and the need for medication while improving range of motion. The State's investment went primarily toward completion of a low-cost single-patient product that complies with Medicare reimbursement, as well as contracting with three potential distributors.

Actual Outcome:

The company successfully completed the low-cost single-patient system, has been selling its product and has added three new distributors in addition to the original. The company has recently mapped out a design for a new low-cost driver and is in the process of securing Food and Drug Administration (FDA) approval for an extension of its clearance for the InterX device, as well as approval of another device.

Neurolink, Inc.

TETF Award Amount: \$3,234,000

Award Date: October 1, 2010

Region: South Texas

Higher Education Collaboration: The University of Texas San Antonio & The University of Texas Health Science Center at San Antonio

Intended Outcome:

Neurolink is developing a seizure detection and prevention system that will be implanted into a patient to detect pre-epileptic conditions and deliver an anticonvulsant drug, preventing the onset of a seizure. The State's investment went primarily toward accelerated prototype development and pre-clinical testing.

Actual Outcome:

Neurolink developed a prototype detection probe and completed initial device testing. The company prepared in-vitro alpha phase testing for deployment of the probe and data collection and selected three pharmacological agents. The company also completed a drug delivery device prototype and delivered a drug in-vitro, drafted protocol for a preclinical study and raised additional capital through an offering of Preferred Stock.

NonInvasix, Inc.

TETF Award Amount: \$250,000

Award Date: April 8, 2009

Region: Gulf Coast

Higher Education Collaboration: The University of Texas Medical Branch at Galveston

Intended Outcome:

NonInvasix is developing a device that relies on sound waves to measure hemoglobin and other blood components without requiring a blood draw. The State's investment went primarily toward developing a disposable patient interface cable, preparing an application for Food and Drug Administration approval, filing patents and producing a prototype for testing.

Actual Outcome:

The company hired a medical engineering development firm to aid in the design of the company's console, patient interface, and a cable for a working clinical prototype. NonInvasix also filed for a provisional patent application and

conducted a review of patents that concluded Noninvasix patents did not pose a freedom to operate risk. The company has also received a \$1.2 million U.S. Army development award and a \$2.2 million U.S. Army development award to develop a laboratory prototype shock monitor and a laboratory prototype brain oxygenation monitor, respectively.

Oncolix, Inc.

TETF Award Amount: \$2,400,000

Award Date: October 1, 2010

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Oncolix is developing Prolanta, a drug to treat ovarian and other gynecological cancers. Prolanta targets prolactin receptors in gynecological cancer cells and triggers a response that results in the destruction of cancerous cells with fewer side effects than chemotherapy. The State's investment went primarily toward completing preclinical development and commencing a human test trial in ovarian cancer.

Actual Outcome:

The company has performed preclinical development studies, toxicology/safety studies, optimized the manufacturing process and developed its Phase I clinical trial design. Oncolix continues to work with The University of Texas MD Anderson Cancer Center under a sponsored research agreement, and has completed Phase I clinical study protocol and received clearance from the U.S. Food and Drug Administration to commence a Phase I clinical study. All contractual milestones have been completed.

OnTrack Imaging, Inc.

TETF Award Amount: \$1,000,000

Award Date: October 7, 2009

Region: North Texas

Higher Education Collaboration: Texas A&M University

Intended Outcome:

OnTrack Imaging is developing a high-definition ultrasound imaging system that can detect soft-tissue defects that can lead to catastrophic injuries in horses and humans. The State's investment went primarily toward development of the system, along with efforts to secure two letters indicating intent to purchase. The company was also to raise \$300,000 in private capital.

Actual Outcome:

The company completed the OnTrack Imaging, Inc. Ultrasound System (OTIS) coupling device and transducer, which generates a signal that is captured by the camera and chip and is transmitted to the display. The company received two letters from veterinary clinics stating their desire to purchase the camera when it is available. In addition, OnTrack received a letter of support from Dr. Mark Lennox at Texas A&M TIPS and raised an additional \$150,000 in private capital. The company completed all technical milestones.

OptiSense Network LLC.

TETF Award Amount: \$1,500,000

Award Date: March 5, 2007

Region: North Texas

Higher Education Collaboration: The University of North Texas

Intended Outcome:

Optisense is developing “intelligent grid” technology that enables utility companies to monitor feeder circuits more cost-effectively, enhance system operations, optimize power flows, and provide greater grid security and reliability. The State’s investment went primarily toward finalizing testing units, designing procedures for lab testing certification, setting up production equipment and delivering customer units.

Actual Outcome:

The company completed research on current sensor technology, resulting in a patented product being added to Optisense’s existing voltage sensor technology. Another method’s patent application is pending. Lab testing procedures were completed in collaboration with the University of North Texas, and the company has expanded its existing technology. The company also made progress in the development of its patent portfolio, and has hired a VP of Engineering, Sales, and a Chief Optical Engineer. All contractual milestones have been completed.

Ortho Kinematics, Inc.

TETF Award Amount: \$1,500,000

Award Date: May 8, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Ortho Kinematics is developing a spinal diagnostic imaging system to improve diagnosis and surgical management of severe back and neck pain. The State’s investment went primarily toward relocation of operations from California to Texas, finalizing test protocols and establishing collaboration with a Texas university. The company was also to submit an application to the Food and Drug Administration (FDA) for device testing approval.

Actual Outcome:

Product development is complete. The company received FDA 510(k) clearance for the KineGraph VMA™ (Vertebral Motion Analyzer) system and is conducting a beta launch. Nine investors contributed \$605,000 of additional capital in the most recent 12-month period, and the company has expanded its leadership team. All contractual milestones have been completed.

OrthoAccel Technologies, Inc.

TETF Award Amount: \$750,000

Award Date: October 26, 2007

Region: Gulf Coast

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

OrthoAccel Technologies is developing and commercializing orthodontic devices that safely reduce treatment for braces and works as a complement to all existing orthodontic technologies. The State’s investment went primarily toward attracting additional management talent, completing device prototyping and launching the first human trial. The company was also to raise additional financing and conduct a market launch in 2009.

Actual Outcome:

The company’s product has been successfully introduced to the United Kingdom, Australia, France, Italy and many other countries. OrthoAccel holds at least three issued patents and has filed applications for several more. Clinical trials have been collaborated on with The University of Texas at Houston, The University of Texas at San Antonio, and the University of Connecticut. The company received Food and Drug Administration clearance in November 2011 on their AcceleDent™ product, which is now available in the U.S. The first U.S. patient has completed treatment. In April and May 2012, the company raised \$10,000,000 in a Series B financing. All contractual milestones have been completed.

Palmaz Scientific, Inc.

TETF Award Amount: \$3,000,000

Award Date: April 15, 2010

Region: South Texas

Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

Palmaz Scientific is redesigning and improving cardiovascular stents through advancements in nanotechnology and metallurgy. The State's investment went primarily toward preparation of a stent design dossier for regulatory approval, acquisition of specialized equipment and the fabrication and bench testing of prototypes.

Actual Outcome:

The company integrated laser technology to cut stent development cycle time from weeks to days and low-profile stent prototypes have been bench tested. Follow-up animal studies were completed at The University of Texas Health Science Center at San Antonio, validating the effectiveness of the company's patented micro-groove technology. All contractual milestones have been completed.

Patton Surgical Corporation

TETF Award Amount: \$3,000,000

Award Date: September 4, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Patton developed a medical device to help make abdominal laparoscopic surgeries less invasive. The State's investment went primarily toward completing research and development of the product, hiring additional staff, building inventory for future demand, creating molds for new surgical products, marketing of the product and finalizing plans for the assembly and sterilization processes.

Actual Outcome:

The company performed additional research and development to complete a full product line that launched in 2010. After building up inventory and hiring a sales and marketing team, the company tripled the number of facilities where Patton Surgical's products were used in surgery. A leading medical device company, Stryker, purchased the company's Trocar line in June 2012. The company returned the TETF's investment in July 2012, and the business wound down operations to close formally later that month.

Photodigm, Inc.

TETF Award Amount: \$749,829

Award Date: April 26, 2007

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Photodigm is developing advanced laser technology for more affordable and efficient laser systems to be used in communications, digital imaging, medical devices and defense. The State's investment went primarily toward purchasing manufacturing equipment, recruiting senior sales and marketing personnel and producing prototypes. The company would use these steps to prepare for the introduction of a variety of high-power laser products for delivery.

Actual Outcome:

The company introduced a wide product line of single frequency precision semiconductor lasers for use in scientific instruments, metrology and industrial processing. Customers include defense contractors, government and academic

research laboratories, and industrial equipment manufacturers. The lasers are designed and produced in the company's wafer fabrication facility in Richardson, TX, and are being sold to customers worldwide.

Photon8, Inc.

TETF Award Amount: \$1,000,000

Award Date: November 13, 2009

Region: Tropical Texas

Higher Education Collaboration: The University of Texas at Brownsville

Intended Outcome:

Photon8 is developing technology to genetically enhance algae to boost its performance as a source of biofuel. The State's investment went primarily toward completing laboratory tests, completing its seawater collection and sterilization procedure, and demonstrating the genetic capabilities of the technology.

Actual Outcome:

In order to conduct a bulk seawater treatment process, the company purchased a truck and mounted a 225-gallon tank on it. As of February 2012, the company had successfully processed 14 truckloads. Photon8 has also produced a 8-oz. visual quantity of algae oil and shipped it to customers for analytical testing.

PLx Pharma, Inc.

TETF Award Amount: \$2,000,000

Award Date: March 27, 2007

Region: Gulf Coast

Higher Education Collaboration: The University of Texas Health Science Center at Houston

Intended Outcome:

PLx Pharma is developing gastrointestinal, non-steroidal anti-inflammatory drugs that are safer than those currently on the market, such as aspirin and ibuprofen. The State's investment went primarily toward the development of a commercial formulation and a trial of a safer aspirin to assess its bioequivalence, compared with regular aspirin.

Actual Outcome:

The company successfully completed a pivotal trial for PL2200 Aspirin 325 mg, essential for a New Drug Application, and continues development of a GI safer aspirin product, PL2200 Aspirin 325 mg. A new Drug Application was filed with the US FDA on March 12, 2012, and PLX has been notified that the NDA is accepted for review. PLX has one clinical trial ongoing and is preparing to initiate another clinical trial.

PrincipleSoft, Inc.

TETF Award Amount: \$750,000

Award Date: June 13, 2007

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

PrincipleSoft is developing technology that creates a high-speed data connection directly between targeted individuals and information, allowing for the delivery of real-time video to a variety of wireless devices. The State's investment went primarily toward completion of a digital transceiver design and its integration with analog/radio frequency subsystems. The company was also to develop a demonstration unit, a prototype, and file for additional patents.

Actual Outcome:

The company completed the design of both the digital transceiver and analog frequency subsystems, successfully integrating them in a field-programmable gate array board. An omnibus patent was filed with the U.S. Patent and

Trade Office. While testing and some development have not been completed due to a lack of funding, the company is pursuing a new application in the area of microwave backhaul and is in the process of solidifying patents to pursue a revenue model based on licensing.

Pronucleotein Biotechnologies Corporation

TETF Award Amount: \$1,000,000

Award Date: February 18, 2009

Region: South Texas

Higher Education Collaboration: The University of Texas-Pan American

Intended Outcome:

Pronucleotein (PnB) is developing products for rapid onsite food-safety testing, using technology that can detect pathogens such as E. coli and salmonella in food and water. The State's investment went primarily toward research involving Food Safety Net Services and The University of Texas-Pan American. The company also was to develop product prototypes for testing and evaluation.

Actual Outcome:

The company produced its prototype assay in-house and coupled it with PnB firmware in order to detect bacteria in foods. The improved second-generation reader has been completed and testing continues. In December 2011, the company received three testing reports from an external laboratory, and is currently working with a third party to develop an automated washer for use with its prototype reader and conduct advanced testing.

Pulmotect, Inc.

TETF Award Amount: \$1,000,000

Award Date: June 8, 2009

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Pulmotect is developing products to boost the immune system against a wide range of airborne diseases, including pneumonia, influenza, anthrax and staphylococcus. The State's investment went primarily toward securing a manufacturing partner, preparing for Food and Drug Administration (FDA) review and completing preclinical studies at The University of Texas MD Anderson Cancer Center and recruiting additional management staff.

Actual Outcome:

The company secured contract manufacturing for preclinical studies with Bachem, Inc., and Aveica Biotechnology, Inc., as manufacturers. Pulmotect also completed preclinical safety and dose-response studies at MD Anderson that provided a foundation to conduct further studies, as approved by the FDA.

Qcue, Inc.

TETF Award Amount: \$1,000,000

Award Date: October 20, 2009

Region: Gulf Coast

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Qcue is reinventing the primary ticket marketplace with dynamic pricing and inventory management solutions for live entertainment events. Sports teams, concert promoters and venues use Qcue's patent-pending technology to set the right price at the right time and provide the best value for fans, from initial sale to the date of the event. The State's investment went primarily toward filing patents, hiring business development executives, acquiring new clients, deploying the product and conducting market research.

Actual Outcome:

The company filed patent applications, hired a software developer and a public relations firm to further business development. Customers and partners include leading franchises across Major League Baseball, Major League Soccer, the National Basketball Association, the National Hockey League and NASCAR. All contractual milestones have been completed and the company continues to sign new clients and increase sales.

Quantum Logic Devices, Inc.

TETF Award Amount: \$600,000

Award Date: March 27, 2007

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Quantum Logic is commercializing its patented nanoelectronic platforms, which allow hospitals, clinics, physicians and consumers to perform simple medical tests to immediately identify possible illnesses. The State's investment went primarily toward continuing development of Quantum Logic's technology. The company was also to finalize designs and produce a first generation unit.

Actual Outcome:

The company finalized its designs and has a manufacturing agreement in place, with prototypes completed and delivered to NASA's Johnson Space Center. Quantum Logic Devices collaborated with The University of Texas at Austin for the use of facilities at the Microelectronics Research Center. The company has completed all contractual milestones and continues to seek commercialization partners, capital investors and additional parties for additional development and licensing.

RadioMedix, Inc.

TETF Award Amount: \$2,800,000

Award Date: November 23, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

RadioMedix is developing a new radiopharmaceutical platform and automated synthesizer unit to assist in the manufacturing of radiopharmaceuticals for positron emission tomography (PET) scans. This unit, when coupled with a small generator, will produce PET Gallium-68 radiopharmaceuticals, onsite, alleviating the need for separate cyclotron facilities, saving time and money.

Actual Outcome:

The company is working on software upgrades and design improvements of the product based on testing results. The company completed the last stage of pre-clinical studies in tumor-bearing animal models. It also completed design and building of new imaging center that will focus on an application of state-of-art imaging technologies for preclinical characterization of new radiotracers. The company anticipates that its SmartMedix system will be introduced into the research market by mid-2013.

Rebellion Photonics, Inc.

TETF Award Amount: \$1,000,000

Award Date: June 21, 2012

Region: Gulf Coast

Higher Education Collaboration: Rice University

Intended Outcome:

Rebellion Photonics is developing technology to detect chemical leaks within the oil drilling, oil refining and chemical/petrochemical industries. The State's investment went primarily toward product design, further technological development and fabrication process development, selection of suppliers, cost analysis and initiation of device certification.

Actual Outcome:

A prototype was scheduled to be completed in late 2012. A major oil and gas industry leader has agreed to perform a pilot study of the company's oil and gas product. Following this pilot study and certification tests, sales are expected to commence in 2013.

Receptor Logic, Inc.

TETF Award Amount: \$2,000,000

Award Date: June 16, 2008

Region: West Texas

Higher Education Collaboration: Texas Tech University

Intended Outcome:

Receptor Logic is developing technology for the treatment of cancer and chronic diseases in the field of immunology. The State's investment went primarily toward finalizing production designs, completing technical assays, assembling a research and development team and launching a web-based catalog.

Actual Outcome:

The company has demonstrated the therapeutic potential of TCRm antibodies for treatment of oncology conditions and infectious disease. The company is collaborating with academic and industry partners, including Texas Tech University, to move the technology into the clinic, with licensing and evaluation discussions underway with leading companies. The company has completed all contractual milestones.

Resonant Sensors, Inc.

TETF Award Amount: \$600,000

Award Date: May 18, 2007

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Resonant Sensors is developing a new class of sensors for use in the production of biomedical compounds and drugs, allowing researchers to rapidly and accurately evaluate the performance of experimental new drug compounds. The State's investment went primarily toward development of the product and business strategy, as well as development and production of sensor plates. The company also was to establish high-volume production of the sensors, and enter into a partnership for high-throughput system production.

Actual Outcome:

The company completed strategy development goals in early 2007, with a sales and marketing plan that extends through 2013. Joining with university research partners, Resonant Sensors is conducting various projects utilizing a commercial prototype. The company established a means for commercial production of the sensor plates, and a partnership has been established for production. The company, which recently released a new RSI Bioassay system, has completed all contractual milestones.

RFMicron, Inc.

TETF Award Amount: \$925,000

Award Date: May 22, 2008

Region: Central Texas
Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

RFMicron is developing self-tuning Radio Frequency ID circuits to be used as tags for faster, more accurate tracking of a company's inventory and other assets. The State's investment went primarily toward design, development and testing of hardware and software, continued product development and market strategy, and expansion of patents.

Actual Outcome:

The company completed its design and development of "Chameleon," which adapts to any product and automatically compensates for any interference from the product's packaging. RFMicron's designs have been manufactured and tested. The company filed applications for several patents, and two have been issued. RFMicron successfully graduated from the ATI and has moved into its own facility located in Austin. RFMicron has attracted additional investment, and all milestones have been completed.

Salient Pharmaceuticals, Inc.

TETF Award Amount: \$2,000,000

Award Date: December 14, 2009

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Salient is developing therapeutic products for the prevention and treatment of gastrointestinal side effects caused by disease, chemotherapy or radiation. The State's investment went primarily toward enrolling new patients in clinical trials, expanding trials to sites outside The University of Texas MD Anderson Cancer Center, designing and securing a provider for drug-to-drug interaction testing, completing stability testing of the product, and recruiting a Scientific Advisory Board.

Actual Outcome:

In 2010, Salient completed the drug-to-drug interaction studies at Austin-based PharmaForm and also completed a drug stability study. Salient also continued to work with Texas-based institutions of higher education. The company completed a Phase II clinical trial with 100 patients during 2012 and has filed additional patent applications.

Savara, Inc.

TETF Award Amount: \$1,900,000

Award Date: June 1, 2010

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Savara is utilizing its advanced nanoparticle-based platform technologies to create a pulmonary focused, pharmaceutical product development company aimed at such fields as oncology and the treatment of asthma and cystic fibrosis. The State's investment went primarily toward formulation development, conducting studies and developing standard operating procedures for the production of a clinical supply. The company was also slated to take steps toward approval of clinical studies and filing of additional IP applications.

Actual Outcome:

In Q4 2012, Savara submitted an Investigational New Drug application (IND) with the FDA and will start Phase IIa trial in the US in Q1 2013. In the IND, Savara included the results of their Phase I trial in both volunteers and patients and the successful outcome of their inhalation toxicology studies. Savara is engaged in collaborations with several large

pharmaceutical companies, and was a member of The University of Texas Austin Technology Incubator. All contractual milestones have been completed.

ScanTech Sciences, Inc.

TETF Award Amount: \$2,000,000

Award Date: July 9, 2009

Region: Rio Grande

Higher Education Collaboration: Texas A&M University

Intended Outcome:

ScanTech Sciences, Inc. (STS), is developing technology that will improve phytosanitary treatment and prolong the useable shelf life of fresh fruits and vegetables. The State's investment went primarily toward research and development of STS' Electron Beam Food Treatment System, as well as ongoing research into the effects of irradiation on produce quality. The company also was to complete design on a facility, relocate headquarters to Texas and apply for approval of the facility from the U.S. Department of Agriculture (USDA).

Actual Outcome:

The company has completed studies and schematics for the facility, has located a potential site, and has partnered with a local business to build and operate the facility in McAllen, Texas. The company has received the amendment to the USDA regulation that will allow the operation of the facility on the Texas side of the Mexican border and has initiated the final licensing for the construction of the plant.

Secure Origins, Inc.

TETF Award Amount: \$2,000,000

Award Date: July 5, 2007

Region: Trans Pecos

Higher Education Collaboration: The University of Texas at El Paso

Intended Outcome:

Secure Origins is developing software to effectively and intelligently monitor company supply chains. The State's investment went primarily toward establishing a monitoring laboratory in El Paso, creating a fully-functional networked operation and establishing a public-private partnership in the El Paso-Juarez region. The company was also to complete development tools for programmers, as well as establish an international distributor.

Actual Outcome:

In August 2011, El Paso Commissioners Court approved the final Secure Border Trade Demonstration Project (SBT) contract with TransCore, Inc., Secure Origins, and OnAsset, Inc. A technical committee composed of state and regional representatives selected the company's cross-border technology solution. The company's SBT contract is in place and ongoing.

Seno Medical Instruments, Inc.

TETF Award Amount: \$2,000,000

Award Date: July 19, 2007

Region: South Texas

Higher Education Collaboration: The University of Texas Health Science Center at San Antonio

Intended Outcome:

Seno Medical Instruments is developing acoustic imaging technology for the detection and diagnosis of various cancers. The State's investment went primarily toward design and development of imaging probe prototypes, final device development, and steps toward conducting Food and Drug Administration (FDA) clinical trials.

Actual Outcome:

The company completed the design and prototype development of a small animal research imaging system, and subsequently licensed the system to a worldwide market leader. Development of a cancer imaging system has progressed, with a prototype system installed at the Cancer Therapy and Research Center at The University of Texas Health Science Center at San Antonio. A clinical trial at The University of Texas Health Science Center at San Antonio is ongoing. The company also completed a product redesign based on study group feedback to better address market needs, and is currently working on components for the final commercial device.

SeprOx Corporation

TETF Award Amount: \$750,000

Award Date: February 17, 2009

Region: Gulf Coast

Higher Education Collaboration: University of Houston

Intended Outcome:

SeprOX was developing a medical oxygen generator that separates pure oxygen from air for patients with breathing problems. The device was to be lighter and less expensive than currently marketed home oxygen generators. The State's investment went primarily toward continued product design and development, creation of a prototype module, finalization of a business plan, and expansion of the management team. The company was also to acquire a letter of interest and secure additional funding.

Actual Outcome:

The company was unable to secure any outside investor funding, a requirement imposed by the State of Texas for the company to qualify to receive its final tranche of funding. With no additional funding, no industrial partner and a licensed material with a fatal flaw that prevented it from being fabricated into a usable membrane, SerOx will discontinue business activities and the company will be closed as of December 31, 2012. The Office of the Governor sent a Demand Notice, in accordance with the agreement, on October 9, 2011, and has referred the matter to the Attorney General's Office.

Smart Imaging Technologies Corporation

TETF Award Amount: \$1,000,000

Award Date: December 31, 2008

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Smart Imaging is developing a system to automatically identify water-borne pathogens during analysis tests mandated by the Environmental Protection Agency and the Safe Drinking Water Act. The technology will significantly reduce the amount of time needed to perform critical analysis and increase the number of tests that can be completed in a given day. The State's investment went primarily toward developing and completing a pilot program, continuing business development and establishing a customer base.

Actual Outcome:

The company developed a cloud-based software platform for high-performance biomedical image analysis with a \$20 billion dollar target market. Smart Imaging is working with the Texas A&M University Office of Technology Commercialization, accelerating the adoption of the technology in multiple markets.

SmartField, Inc.

TETF Award Amount: \$1,000,000

Award Date: January 6, 2010

Region: West Texas

Higher Education Collaboration: Texas Tech University

Intended Outcome:

Smartfield is developing and commercializing technology that uses sensors to remotely monitor crop canopy temperatures and stress levels, helping keep track of irrigation needs, product performance, intervention signals and fertility programs. The State's investment went primarily toward continuing product design and development, establishing commercial distributors and institutional collaboration, conducting field trials and data collection, and meeting a minimum sales goal.

Actual Outcome:

The company partnered with global and regional agricultural retailers, crop consultants, and landowners. Sales continue to grow. The company is researching an offshoot technology and exploring additional uses for its current product.

SNR Labs Corporation

TETF Award Amount: \$750,000

Award Date: September 26, 2007

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

SNR Labs is developing a convergence manager that would allow wireless devices to transition seamlessly between various services, including conventional cellular, WiFi and WIMAX networks. The State's investment went primarily toward patent filing, technical development, business development, and finance and product integration.

Actual Outcome:

The company expanded business development resources to target other service providers for the SNR Labs' Vergere product line, which provides device-based solutions for traffic management of heterogeneous networks, including 3G and WiFi. SNR Labs has developed its product to address multi-radio bandwidth management and seamless mobility for network operators. Their products are for sale and SNR Labs has earned significant revenue from AT&T. The company has completed all contractual milestones.

SolarBridge Technologies, Inc.

TETF Award Amount: \$1,500,000

Award Date: December 30, 2009

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

SolarBridge is developing technology to improve the efficiency and reliability of solar panels. The State's investment went primarily toward completing prototype designs and securing a round of outside financing. The company was then to build a prototype and begin testing while securing regulatory certification.

Actual Outcome:

The company completed its first prototype and has gained regulatory approvals. SolarBridge has also introduced a second generation microinverter, as well as two types of management systems to use along with the microinverters. The company raised a significant amount of funds from several sources, and has completed all contractual milestones.

Solarno, Inc.

TETF Award Amount: \$250,000

Award Date: March 1, 2009

Region: North Texas
Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Solarno is developing nanostructured carbon materials for a number of applications. The first product, SolarnoFlex, is a transparent flexible carbon nanotube sheet that can be used as a collector electrode in thin film solar panels, a charge-injection electrode in lightweight Organic Light Emitting Diodes, and as a charge combination interlayer in tandem solar cells. The product line is expanding to include electrospun carbon nanofibers for electrodes in supercapacitors. The State's investment went primarily toward product production, IP filing, additional funding proposals and securing commercial collaborative arrangements.

Actual Outcome:

The company filed and received additional patents and expanded its product line to engage more customers, and additional funding proposals have been submitted. Funding for a Phase II STTR project for supercapacitors was secured, and NDAs have been signed with potential commercialization partners. All contractual milestones have been completed.

Speer Medical Devices, Inc.

TETF Award Amount: \$2,500,000

Award Date: March 31, 2011

Region: South Texas

Higher Education Collaboration: The University of Texas San Antonio

Intended Outcome:

Speer Medical Devices is developing and testing a portable, lightweight vital sign monitor that utilizes pulse oximetry technology to noninvasively monitor eight vital signs, including total hemoglobin. The Company is designing the monitor for battlefield trauma victims with possible hemorrhaging, which is the leading preventable cause of trauma-related deaths. The State's investment went primarily towards completing design and production of the monitor for clinical trials and execution of development agreements with partnering organizations.

Actual Outcome:

All contractual milestones have been completed. The Company executed received approval from an Investigational Review Board to proceed with a clinical trial. Clinical trials were being planned with a regional hospital. The Company is in the process of winding down business operations and in negotiation with the Office of the Governor to resolve conditions of the award.

StarVision Technologies, Inc.

TETF Award Amount: \$750,000

Award Date: October 30, 2007

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

StarVision was developing an altitude-determination sensor system to improve satellite performance and reduce costs. The State's investment went primarily toward completing the design and testing of the system prior to flight qualification performance tests. The company was also to build cleanroom facilities, purchase manufacturing equipment and add to its engineering, marketing and sales staffs.

Actual Outcome:

The company completed initial testing and development of its technology, but filed for bankruptcy in October 2010. The State filed a Proof of Claim in the bankruptcy. The Office of the Governor referred this matter to the Texas Office of the Attorney General.

Stellarray, Inc.

TETF Award Amount: \$750,000

Award Date: July 17, 2008

Region: Central Texas

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Stellarray is developing a new type of flat-panel X-ray source for use in the sterilization of mail, food and medical products, as well as medical imaging and various industrial applications. The State's investment went primarily toward co-funding a large federal contract for development of manufacturing tools and processes, as well as testing radiation panels ranging in size from 5 to 20 inches.

Actual Outcome:

The company successfully established its manufacturing processes and tested panel arrays ranging up to 6 x 14 inches in size. Development of 20-inch panels was postponed due to the decision to use multiple panels of the smaller size to cover larger sterilization areas. The Company continues its collaboration with The University of Texas MD Anderson Cancer Center. They recently received a patent and are now producing flat panel x-ray sources for use in a self-contained blood irradiator, and are implementing procedures and performing tests of the irradiator to prepare for FDA clearance. They have received a large NIH grant (\$3Mn) for development of the blood irradiator, two Phase I SBIR contracts, one Phase II SBIR contract and a \$100K commercial contract. The company is currently a subcontractor to the MD Anderson Cancer Center under a long-term NIH grant (\$2.5 Mn) for the development of real-time CT systems using the Stellarray digitally addressable x-ray source.

Sunrise Ridge Algae, Inc.

TETF Award Amount: \$250,000

Award Date: July 24, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Sunrise Ridge was developing algae biomass technology that uses algae to convert waste water and carbon dioxide into renewable energy and animal feeds. The State's investment went primarily toward establishing a pilot plant operation with the goal of producing 1 kg of algae biomass and 1 kg of extracted algal oils for delivery and testing, securing additional patents, and creating a sponsored research agreement with The University of Texas at Austin.

Actual Outcome:

The company worked with The University of Texas at Austin to research algae culture collection and was able to produce algae biomass for additional research and development. However, Sunrise Ridge Algae subsequently ceased operations. The Office of the Governor demanded repayment of the disbursed award for failure to pursue commercialization efforts. The Office of the Governor referred this matter to the Texas Office of the Attorney General.

Syndiant, Inc.

TETF Award Amount: \$3,500,000

Award Date: February 20, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Dallas

Intended Outcome:

Syndiant is developing smart-panel projection display technology that enables production of the world's smallest high-resolution light modulators. The technology enhances the small-format projector market for cell phones, personal computers and accessory products. The State's investment went primarily toward expanding the engineering team, preparing for mass production, filing patents applications and conducting two research projects with The University of Texas at Dallas.

Actual Outcome:

The company expanded their engineering team and hired 19 new employees in Texas. Preparation for mass production was completed as the final design for Lithographic masks and tooling was finished and the ASIC#2 image controller chip went into mass production. The company completed power-reduction analysis of products with the University of Texas at Dallas (UTD) Center for Integrated Circuits, and engaged with the UTD Material Science Department to explore Active Matrix Organic Light Emitting Diode (AMOLED) drive applications. Additionally, Syndiant filed five provisional patents, with one patent granted.

Terapio Corporation

TETF Award Amount: \$1,700,000

Award Date: July 21, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Arlington, University of North Texas Health Science Center and the University of Texas at Austin.

Intended Outcome:

Terapio is developing treatments for radiation poisoning and other toxicities that use the naturally-occurring protein RLIP76 to transport toxins out of cells before major damage occurs. The State's investment went primarily toward testing the stability of the protein, testing for toxicity and completing process development and associated production runs to provide the foundation for commercial manufacturing.

Actual Outcome:

The company reported that stability testing is complete and toxicity tests indicated clinically-relevant dosages were feasible. Terapio successfully conducted each phase of protein production using a commercially-scalable process.

Terrabon, Inc.

TETF Award Amount: \$2,750,000

Award Date: July 12, 2010

Region: Tropical Texas

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Terrabon was developing technology that converts materials such as municipal solid waste, sewage, forest product residues and non-edible energy crops into chemicals and secondary alcohols that can be further refined to produce non-ethanol gasoline, jet fuel or diesel. The State's investment went primarily toward the building and operation of a demonstration facility in Bryan, Texas, to convert municipal waste into hydrocarbons. The company was also to expand its research agreement with Texas A&M University.

Actual Outcome:

The company failed to commercialize the MixAlco Technology, including but not limited to an inability to continue business operations. As of September 7, 2012, Terrabon, Inc. intended to liquidate the company under Chapter 7 of the U.S. Bankruptcy Code.

Texas MicroPower, Inc.

TETF Award Amount: \$750,000

Award Date: February 15, 2008

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Texas Micropower is developing innovative materials, structures and systems for efficient, cost-effective energy harvesting for mobile and embedded systems. The State's investment went primarily toward product development and design, evaluating and optimizing materials, completing prototypes and engaging potential customers.

Actual Outcome:

The company suffered a substantial loss of key engineering personnel, requiring both a major re-strategizing and operative redirection for cash flow conservation. Texas Micropower, Inc., concentrated on manufacturable micro transducer technology development, primarily in collaboration with leading academic research teams at University of Texas at Dallas. The company is expanding the collaboration through sponsoring senior design teams (three to date) and with the National Science Foundation (NSF). The company will continue efforts to collaborate with regional and national academia and energy-harvesting centers to secure more grants, as well as expand the opportunities to commercialize the IP.

Thrombo Vision, Inc.

TETF Award Amount: \$1,500,000

Award Date: July 5, 2007

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University-Commerce

Intended Outcome:

Thrombo Vision was developing a platelet function monitor that would measure the effectiveness of anti-platelet therapies in preventing heart attacks, strokes, stent occlusions and other cardiovascular crises. The State's investment went primarily toward completion of device design improvements, submission of an application for Food and Drug Administration (FDA) approval, and the establishment of manufacturing capabilities for clinical trials and market introduction.

Actual Outcome:

The company completed design and prototype development of a 5th generation monitor in 2007. These devices were used to conduct several clinical trials, including at Methodist Hospital in Houston. An application for FDA approval was filed in August 2008; however, after five rounds of questioning and additional clinical testing, the FDA denied approval. Thrombo Vision filed for bankruptcy in September 2010, and the State filed a Proof of Claim. The Office of the Governor referred this matter to the Texas Office of the Attorney General.

Turbo Trac USA, Inc.

TETF Award Amount: \$2,000,000

Award Date: August 24, 2009

Region: West Texas

Higher Education Collaboration: The University of Texas of the Permian Basin

Intended Outcome:

Turbo Trac is developing energy conservation technology for automotive, industrial and wind energy markets. This technology increases efficiency in industrial motors, while reducing energy consumption for industrial systems. The State's investment went primarily toward development and assembly of the company's first prototype for use in field and laboratory testing

Actual Outcome:

The company's prototype program has been completed and has been tested broadly in both laboratory and field conditions, meeting and exceeding all performance expectations. Product development was completed, commercialization efforts implemented and the product is currently both in production and actively being sold in the target market. The company has completed all contractual milestones and raised additional capital.

TXL Group, Inc.

TETF Award Amount: \$500,000

Award Date: February 4, 2008

Region: Trans Pecos

Higher Education Collaboration: The University of Texas at El Paso

Intended Outcome:

TXL Group is developing thermoelectric solutions for capturing heat energy from waste heat. The State's investment went primarily toward establishing a collaborative agreement with an industry partner, filing additional patents, and securing additional equity and grant capital. The company was also to begin pilot tests for lighted raised pavement markers and recovering heat energy in an industrial application. TXL was also responsible for generating sales and a market presence.

Actual Outcome:

The company began selling a development kit for thermoelectric devices, followed by the release of thermoelectric converter circuits for enabling energy capture from environmental sources. These products are sold through distribution. TXL has received one U.S. patent for roadway heat-powered roadway markers, with additional patents pending. TXL has obtained \$700,000 in two NASA contracts for the development of high-efficiency thermoelectric materials, and maintains an ongoing collaboration with the University of Texas El Paso for research support. The Office of the Governor sent a notice of demand for repayment of the award due to a failure of meeting certain technical milestones. There are ongoing discussions to resolve the dispute.

Vapogenix, Inc.

TETF Award Amount: \$2,000,000

Award Date: June 15, 2012

Region: Gulf Coast

Higher Education Collaboration: University of Texas Medical Division Anderson Cancer Center

Intended Outcome:

Vapogenix is developing novel, non-opioid analgesics for pain management related to minor procedures. The company's lead product, VPX-595, is a compound being developed initially for the treatment of acute pain. The State's investment went primarily toward developing a strategy and testing, initiating communication with the Food and Drug Administration (FDA) for IND requirements, and identifying a clinical trial site.

Actual Outcome:

The company completed existing formulation development projects with DPT Laboratories and Southwest Research Institute, both in San Antonio. The company successfully initiated communication with the FDA to clarify IND requirements. Additionally, Vapogenix contracted with a manufacturer of clinical trial material, Velesco Pharmaceutical Services, and contracted with a clinical operations vendor in Texas, TRIBE Clinical Development, Inc.

Varaha Systems, Inc.

TETF Award Amount: \$1,500,000

Award Date: August 14, 2009

Region: North Texas

Higher Education Collaboration: The University of Texas at Arlington

Intended Outcome:

Varaha is developing technology that allows users to extend voice, data and video applications to mobile devices while maintaining security and network accessibility. The State's investment went primarily toward expanding distribution channels, improving market reach, increasing sales staff and completing a university collaboration survey article.

Actual Outcome:

The company's uMobility application is approved for major Smartphone and Blackberry devices, and is sold worldwide through the company's channel partners. Sales staff has been increased, and Varaha has worked closely with UT Arlington to publish a joint survey article through research and survey activities. The company has completed all contractual milestones.

Veros Systems, Inc.

TETF Award Amount: \$1,500,000

Award Date: June 14, 2010

Region: Gulf Coast

Higher Education Collaboration: Texas A&M University

Intended Outcome:

Veros Systems is developing software-based technology that monitors and assesses the condition of electrically-driven industrial machines, detecting potential anomalies or faults and allowing plant managers time to make decisions on repairing or replacing parts before machine failure. The State's investment went primarily toward securing purchase orders for monitoring motors, expanding the management team, and establishing a sales channel. Additionally, the company's latest intended milestones are to receive additional purchase orders, secure a procurement agreement with a Fortune 500 company, manufacture an enhanced version of the Veros Predictive Intelligence Monitor (PIM), and raise additional capital.

Actual Outcome:

The company received purchase orders for monitoring a total of 67 motors, which was more than the contractual minimum required number of 50. The company hired a permanent CEO with over 25 years of marketing and sales experience in the software industry. Veros Systems has also established an independent sales agent relationship with the Idea Venture Partners (Idea VP) Group.

ViroXis Corporation

TETF Award Amount: \$2,500,000

Award Date: October 1, 2010

Region: South Texas

Higher Education Collaboration: The University of Texas at San Antonio & The University of Texas Health Science Center at San Antonio, Cancer Therapy and Research Center of San Antonio

Intended Outcome:

Viroxis is developing a medication for warts caused by the Human Papilloma Virus (HPV), called albuterpenoid, utilizing a botanical extract from sandalwood oil. The State's investment went primarily toward gaining Food and Drug Administration approval to conduct further clinical studies of its lead drug candidate, a topical albuterpenoid formulation.

Actual Outcome:

The company obtained Food and Drug Administration approval for a Phase II study, expected to be initiated in Q4 2012. ViroXis successfully met milestones requirements to receive the second funding tranche from the TETF.

Visualase, Inc.

TETF Award Amount: \$750,000

Award Date: August 9, 2007

Region: Gulf Coast

Higher Education Collaboration: The University of Texas MD Anderson Cancer Center

Intended Outcome:

Visualase is developing technology using an MRI-guided laser interstitial thermal therapy system for treatment of cancerous tumors, particularly small focal metastatic tumors. The State's investment went primarily toward completing design improvements of the first prototype and software, securing regulatory approvals, completing production designs, commencing clinical trials, and commercial sales.

Actual Outcome:

The company received six regulatory approvals for Visualase-related products and began commercial sales in 2009. The company completed a bone tumor study that demonstrated the procedure can be done both safely and easily with little pain to the patient. The company has completed all contractual milestones. Visualase has also completed a Phase I clinical study on low-grade prostate cancer and initiated a Phase II clinical study for MR-image-guided thermal therapy in prostate cancer. The company's device is also being used in a clinical study for the treatment of partial epilepsy and for treatment of metastatic brain tumors. The company has also been featured on the cover of American Society for Laser Medicine.

Vital Arts & Sciences Incorporated

TETF Award Amount: \$1,000,000

Award Date: June 7, 2011

Region: North Texas

Higher Education Collaboration: The University of Texas Southwestern Medical Center and University of North Texas Health Science Center

Intended Outcome:

Vital Art and Science developed myVisionTrack™, a smartphone app that monitors vision loss caused by age-related Macular Degeneration and Diabetic Retinopathy. The app implements a shape discrimination test that a patient can take at home to quickly and accurately monitor their own disease progression in between doctor visits. This replaces the current unreliable and hard-to-use paper tests to ensure patients get timely treatments and minimize permanent vision loss. The State's investment went primarily toward product development, applications for FDA approval, validation clinical trials and international patent filings.

Actual Outcome:

The company successfully completed a 4-month, 160-patient clinical trial, funded by a major pharmaceutical corporation. The results were presented in May at the Association for Research in Vision and Ophthalmology Conference. The company was awarded a \$988,000 Phase II SBIR Grant from National Eye Institute to develop a next-generation product that has attracted interest from several drug companies. The company's 510(k) application is currently under review by the FDA.

VUV Analytics, Inc.

TETF Award Amount: \$1,000,000

Award Date: June 15, 2012

Region: Central Texas

Higher Education Collaboration: University of Texas at Austin

Intended Outcome:

VUV Analytics is developing and commercializing a Vacuum Ultraviolet Circular Dichroism instrument for structural determination of chiral molecules for use in discovery, development and production of biotherapeutics. The State's investment went primarily toward filing patents, funding early-stage university collaboration, complete initial technology control and analysis software, and build a prototype solution.

Actual Outcome:

The company filed three patents and patent applications for its technology, and funded one-third early-stage university collaboration for technology validation at the University of Texas at Austin. The company also completed VUV-VIS Absorption Spectroscopy initial control and analysis software and built a prototype gas sample cell for use in VUV-VIS/VUV-CD instruments. In addition, VUV Analytics successfully appointed an individual with relevant industry experience as an advisor.

Xtreme Power, Inc.

TETF Award Amount: \$2,000,000

Award Date: March 27, 2007

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin, Texas State University

Intended Outcome:

Xtreme Power is developing a large-scale energy load-leveling system capable of efficiently and cost-effectively storing and delivering large quantities of electric power. The State's investment went primarily toward designing and developing a prototype. The company was also to raise additional capital and reach an agreement with a Fortune 100 company to test one of its systems.

Actual Outcome:

The company designed, built and installed a large-scale product design of their 100kw system. A pilot agreement with a Fortune 100 Company was completed and the company's products are available for purchase from the Grainger and Home Depot websites. Additionally, Xtreme Power sponsored the McCombs School of Business Cleantech Fellows program at the University of Texas at Austin. All contractual milestones have been completed.

Xitronix Corporation

TETF Award Amount: \$500,000

Award Date: January 17, 2008

Region: Central Texas

Higher Education Collaboration: The University of Texas at Austin

Intended Outcome:

Xitronix develops powerful measurement systems that are used to measure nanoscale electronic properties of semiconductors during production. The State's investment went primarily toward completing development, design and an alpha build of the XP700 measurement system, as well as expanding management staff.

Actual Outcome:

The company has completed engineering design and tool development and conducted a trial with consortium partners. In February 2011, the company won an important victory in an intellectual property case against a company that is challenging the company's commercialization of technology for process control of nanostructure electronic properties in semiconductor manufacturing. Headquartered in Austin, Xitronix is now turning its focus to fully bringing its XP700 system to market and plans to expand operations.

ZS Pharma, Inc.

TETF Award Amount: \$2,000,000

Award Date: August 13, 2010

Region: North Texas

Higher Education Collaboration: University of North Texas Health Science Center

Intended Outcome:

ZS Pharma is developing a therapy for the treatment of complications associated with liver and kidney failure, using zirconium silicate crystals to specifically target excess toxins that have built up in the body. The State's investment went primarily toward establishing Food and Drug Administration (FDA) pre-clinical protocols, completing toxicology studies, submitting applications for necessary FDA approvals and conducting pilot trials with humans. The company is also to raise additional capital to complete the needed FDA safety and efficacy trails required to commercialize its product line.

Actual Outcome:

The company established FDA preclinical protocols, completed the toxicology studies, submitted an IND package to the FDA, and received an IND assigned number. In 2011, the company continued to work with the FDA, seeking agreement on the design of human efficacy and safety clinical trials. The company successfully completed a Phase 2 clinical study on the safety and efficacy of zirconium silicate and is planning to initiate a Phase 3 study by the end of 2012.

Research Award Matching

Alliance for Higher Education (Atomically Precise Manufacturing Corporation)

TETF Award Amount: \$4,700,000

Award Date: March 7, 2008

Industry: Nanotechnology

Industry Collaboration & Funding Source: Defense Advanced Research Projects Agency, The University of Texas at Dallas, the University of North Texas, Molecular Imprints, and Zyvex Labs

The award developed the basic tools and techniques necessary to enable accelerated commercialization and market adoption of nanotechnology-enabled devices and systems, including biosensors, pharmacological processing, deep-tissue medical imaging and low-powered sensors for defense and environmental monitoring.

Carbon Nanotechnologies, Inc.

TETF Award Amount: \$975,000

Award Date: September 1, 2006

Industry: Nanotechnology

Industry Collaboration & Funding Source: National Institute of Standards and Technology and Advanced Technology Program

The award was used to further research in the micro-fuel cells that power portable and wireless electronic devices, and to supply single-wall nanotubes in broad enough numbers to support nanoelectronic component development and commercialization efforts. Carbon Nanotechnologies Inc. merged with Unidyn Inc., a California-based subsidiary of Arrowhead Research Corporation, and Arrowhead subsequently sold Unidyn. The contract between Carbon Nanotechnologies and the TETF ended September 14, 2010.

Center for Commercialization of Electric Technologies (CCET)

TETF Award Amount: \$500,000

Award Date: October 9, 2007

Industry: Electric

Industry Collaboration & Funding Source: CCET member electric companies—Oncor Electric Delivery, CenterPoint Energy, and AEP Texas, ERCOT, Electric Power Research Institute and U.S. Department of Energy

The award was used for the Informational Technology for the 21st Century Smart Grid project. The contract between CCET and the TETF ended October 9, 2012.

Global Contours Ltd.

TETF Award Amount: \$950,000

Award Date: April 5, 2007

Industry: Defense

Industry Collaboration & Funding Source: U.S. Army Small Business Innovation and Research and the National Science Foundation

The award was used to develop electromagnetic interference (EMI) and electromagnetic pulse (EMP)–shielding dome technologies for construction of electronic data centers and other special purpose buildings with the Monolithic Dome Institute in Italy, TX, using a modified concrete formula. The contract between Global Contours and the TETF ended April 5, 2012.

Lynntech, Inc.

TETF Award Amount: \$600,000

Award Date: April 19, 2007

Industry: Energy

Industry Collaboration & Funding Source: U.S. Air Force Small Business Innovation and Research

The award was used to design, fabricate and demonstrate a hydrogen fuel-cell powered, multi-use vehicle for the U.S. Air Force. The contract between Lynntech and the TETF ended March 19, 2012.

National Trauma Institute (NTI)

TETF Award Amount: \$3,800,000

Award Date: January 28, 2008

Industry: Biotechnology & Life Science

Industry Collaboration & Funding Source: Industry Collaborator: Athena GTX; Government Collaborator: U.S. Army Institute of Surgical Research

The award was used for the development of a small, rugged, wireless portable vital sign monitor and computer system that attaches to a standard blood pressure cuff at point of injury, through patient transport and into advanced care. FDA approved, the device can monitor and stream data on up to 20 individuals, providing critical information on injured soldiers during transport. Developed for the battlefield, the device is also gaining commercial traction in hospitals and for emergency response.

Sematech Corporation

TETF Award Amount: \$5,000,000

Award Date: May 22, 2006

Industry: Computer & Information Technologies

Industry Collaboration & Funding Source: Defense Advanced Research Projects Agency, University of Texas at Austin, University of Texas at Dallas, Molecular Imprints, Inc., Hewlett Packard, and Texas Instruments

The award was used to develop the Advanced Processing and Prototyping Center, dedicated to prototyping new nanoscale manufacturing processes and accelerating the commercialization of new nanoelectronic products. Sematech and the Advanced Technology Development Facility (ATDF) purchased six semiconductor processing and metrology equipment units in support of the Texas Workforce Commission grant establishing the Nano Scholars program. 163 interns completed the program. According to the Nanoelectronics Project Activities and Performance Measures Report provided to the Texas Workforce Commission - February 2008 "At least 2 students were directly

hired by Sematech at the completion of their internship; a third student was offered a position. Most returned to their studies but felt confident in their prospects for employment on graduation.”

Texas A&M University System (National Center for Therapeutics Manufacturing)

TETF Award Amount: \$50,000,000

Award Date: January 27, 2009

Industry: Life Sciences

Industry Collaboration & Funding Source: The University of Texas MD Anderson Cancer Center and the Defense Advanced Research Projects Agency

The award provided funding for the establishment of the National Center for Therapeutics Manufacturing, which will become an international destination for research and development of medications to combat diseases such as cancer, diabetes and influenza, and serve as a model for future national facilities that will protect the nation from bioterror threats and attacks.

Texas Agriculture Experiment Station (Algae Biofuels)

TETF Award Amount: \$4,025,000

Award Date: November 29, 2007

Industry: Energy

Industry Collaboration & Funding Source: General Atomics, U.S. Air Force, Defense Advanced Research Projects Agency, and National Alliance for Advanced Biofuels and Bio-Products

The award was used for a demonstration project for the cost-effective production of algae-derived transportation fuels, and to provide a pathway to commercialization of this technology in Texas. Harvesting and wet-extraction methods were evaluated at the pilot and demonstration scale.

Texas Railroad Commission (FutureGen)

TETF Award Amount: \$3,259,095

Award Date: August 31, 2006

Industry: Energy

Industry Collaboration & Funding Source: U.S. Department of Energy

The award was used to completing a proposal to establish the nation’s first near-zero emission coal-fired power plant in Texas. Texas was one of two finalists; however, the project was awarded to Illinois.

The University of Texas System (SWAN)

TETF Award Amount: \$1,750,000

Award Date: January 9, 2007

Industry: Nanotechnology

Industry Collaboration & Funding Source: Defense Advanced Research Projects Agency, National Science Foundation, National Institute of Standards and Technology, Nanoelectronics Research Initiative, TI, IBM, Intel, Micron, Global Foundries

The award was used to match Semiconductor Research Corporation and Nanoelectronics Research Corporation projects to investigate the limitations in scalability of CMOS transistors, and help establish the Southwest Academy of Nanotechnology (SWAN), a multi-campus nanoelectronics research center. The contract between the University of Texas system and the TETF ended January 9, 2012.

The University of Texas at Dallas (FUSION)

TETF Award Amount: \$5,000,000

Award Date: October 6, 2008
Industry: Semiconductor
Industry Collaboration & Funding Source: COSAR

With additional funding from the Consortium of Semiconductor Advanced Research of South Korea, the TETF award was used to fund and conduct collaborative research projects with Texas Future Semiconductor Commercialization (FUSION) partners, including Samsung, UTHSC – Southwestern, and UT Austin.

The University of Texas Health Science Center at San Antonio (CFAIR)

TETF Award Amount: \$4,099,973

Award Date: February 22, 2007

Industry: Life Science

Industry Collaboration & Funding Source: Defense Advanced Research Projects Agency, NIH, UT, American Heart Association, San Antonio Area Foundation and VA

The award was used to establish a Comprehensive Facility for Animal Imaging Research, using imaging to evaluate new drugs and medical devices prior to and during human trials. Particular focus was given to protective and modified equipment to enhance efficacy and safety on the battlefield. The contract between CFAIR and the Texas Emerging Technology Fund ended January 31, 2012.

Acquisition of Research Superiority

TEXAS A&M UNIVERSITY SYSTEM

Texas Institute for Preclinical Studies (TIPS)

TETF Award Amount: \$6,300,000

Award Date: July 20, 2007

Award Recipient: Texas A&M University

The award was used to recruit three researchers to TIPS to develop advancements in biotechnology, helping new discoveries, particularly medical devices and therapies, move more quickly from concept to the marketplace to treat and prevent diseases.

Texas BioEnergy Alliance

TETF Award Amount: \$3,412,500

Award Date: July 26, 2007

Award Recipient: Texas A&M University

The award enabled Texas A&M University to recruit two top researchers to accelerate the research and development of preferred feedstock for converting biomass, production of biofuels, and related bioproducts. The institution also established the Texas BioEnergy Alliance, a partnership between the Texas Agricultural Experiment Station and Texas Engineering Experiment Station to accelerate the commercialization of the next generation of biofuels.

Institute for Regenerative Medicine (IRM)

TETF Award Amount: \$5,250,000

Award Date: September 19, 2008

Award Recipient: Texas A&M Health Science Center

The IRM was established in August 2008 as a joint venture between the Texas A&M Health Science Center College of Medicine, Scott & White, and the Temple Bioscience District to bridge the gap between basic science and clinical translation in regenerative medicine and experimental cell therapeutics. To date, the IRM has attracted three top researchers and their teams. Using a National Institute of Health grant, the IRM currently distributes standardized preparations of adult stem cells (MSCs) for preclinical experiments to more than 250 laboratories.

TEXAS STATE UNIVERSITY SYSTEM**Center for Multifunctional Materials**

TETF Award Amount: \$4,200,000

Award Date: February 9, 2009

Award Recipient: Texas State University

The award secured three top researchers to expand the Advanced Functional Materials Laboratory and create the Center for Multifunctional Materials. It enabled the Center to expand its user base, which includes Taiwan Semiconductor Manufacturing Corporation, Texas Instruments, and SEMATECH, to include MicroPower Global, which relocated to San Marcos.

TEXAS TECH UNIVERSITY SYSTEM**International Center for Excellence (ICE) in Agriculture Genomics and Biotechnology**

TETF Award Amount: \$2,045,950

Award Date: May 1, 2006

Award Recipient: Texas Tech University

The award provided the necessary financing to acquire a director for the International Center for Excellence in Agriculture Genomics and Biotechnology at Texas Tech University. The Center reported 236 research disclosures, 71 patent applications, 18 patents granted and 37 technologies licensed, including an exclusive license to Bayer Cropscience. Monsanto Co., a multinational agricultural biotechnology corporation, opened a cotton research mega-site in Lubbock to better partner with the center. The contract between Texas Tech University and the TETF ended August 31, 2010.

Nanotechnology Center

TEFT Award Amount: \$2,100,000

Award Date: February 12, 2008

Award Recipient: Texas Tech University

The award was used to attract two internationally renowned researchers to study nanophotonics, the science of the creation and manipulation of advanced materials at the nanoscale that can produce and sense light.

National Institute for Renewable Energy

TEFT Award Amount: \$8,400,000

Industry: Energy

Award Date: August 20, 2010

Award Recipient: Texas Tech University

The award funded the creation of the National Institute for Renewable Energy (NIRE), an independent public-private collaboration that works to solve key challenges facing the wind power industry, and the creation of the National Wind Research Center in Lubbock through the recruitment of four top researchers.

UNIVERSITY OF HOUSTON SYSTEM

Texas International Center for Cell Signaling and Nuclear Receptors

TETF Award Amount: \$5,500,000

Award Date: February 5, 2009

Award Recipient: University of Houston

The award was used to create the Texas International Center for Cell Signaling and Nuclear Receptors (TICNR) by recruiting two internationally renowned researchers and their 10-person team from the Karolinska Institute, in partnership with Houston's Methodist Hospital Research Institute. Their research examines the role of nuclear receptors in the prevention and treatment of disease.

Superconductivity Applied Research Hub

TETF Award Amount: \$3,500,000

Award Date: November 17, 2009

Award Recipient: University of Houston

The Superconductivity Applied Research Hub is researching superconductive wires with a focus on solar and wind power applications, wire manufacturing techniques, and conductivity, through the recruitment of four top researchers. The award also facilitated the relocation of a Superpower, Inc. facility to the University of Houston Energy Research Park for superconductor wire manufacturing.

UNIVERSITY OF NORTH TEXAS SYSTEM

Center for Commercialization of Fluorescence Technology

TETF Award Amount: \$2,388,750

Award Date: March 13, 2007

Award Recipient: UNT Health Science Center at Fort Worth

The award helped recruit three top international researchers to merge modern fluorescence with nanotechnology to develop new biomedical tools and laboratory technology for medical diagnostics, biotechnology, genomics, and proteomics. The contract between the University of North Texas Health Science Center at Fort Worth and the TETF ended January 31, 2011.

THE UNIVERSITY OF TEXAS SYSTEM

Neuroscience Imaging Center

TETF Award Amount: \$3,675,000

Award Date: December 10, 2007

Award Recipient: The University of Texas at Austin

The center is studying brain circuitry and neural activity using brain imaging equipment and reconstruction modeling. The award allowed the University of Texas at Austin to recruit three top researchers to drive developments in software and imaging technologies that enable topological renderings and 3D imagery of brain processes. This allows researchers to study how the brain processes information, and how those processes change under various drug interactions and neurological states.

Texas Analog Center of Excellence (TxACE)

TETF Award Amount: \$4,725,000

Award Date: September 1, 2009
Award Recipient: The University of Texas at Dallas

The University of Texas at Dallas has created the largest analog research center based in an academic institution in the world. The award helped recruit four researchers to examine how to lower the cost of millimeter wave and sub-millimeter wave analog electronics systems.

Integrated 3D Systems Technology

TETF Award Amount: \$3,150,000
Award Date: July 21, 2010
Award Recipient: The University of Texas at El Paso

The award enabled the University of Texas at El Paso to recruit three top researchers in advanced 3D manufacturing and materials technologies. The overall focus of the research is to improve the physical properties of materials, components, and systems while also improving safety and reliability and reducing costs.

Center for Inland Desalination Systems

TETF Award Amount: \$2,100,000
Award Date: October 20, 2008
Award Recipient: The University of Texas at El Paso

The Center, through the research of two TETF funded researchers, is studying desalination-related issues to maximize the benefits of desalination while minimizing negative environmental impacts.

Institute for Cyber Security Research

TETF Award Amount: \$3,694,950
Award Date: April 5, 2007
Award Recipient: The University of Texas at San Antonio

The University of Texas San Antonio (UTSA) Institute for Cyber Security (ICS), with one recruited top researcher, has received more than \$3.8 million in follow-on funding from the National Science Foundation, Silicon Informatics, and others during the term of the contract. ICS entered into one new non-disclosure agreement and filed two invention disclosures. The contract between UTSA and the TETF ended April 5, 2012.

Texas Allergy, Indoor Environment and Energy Institute (TxAIRE)

TETF Award Amount: \$3,937,500
Award Date: July 14, 2007
Award Recipient: The University of Texas at Tyler

The University of Texas at Tyler recruited two nationally recognized experts from industry and created TxAIRE as an Indoor Environmental Quality technology development center. The award enabled the development of a new product commercialization center servicing the HVAC industry cluster. To date, more than eighty Texas-based companies have worked collaboratively with TxAIRE. The contract between the University of Texas at Tyler and the TETF ended August 31, 2011.

Center for Translational Injury Research (CeTIR)

TETF Award Amount: \$4,000,000
Award Date: October 6, 2008
Award Recipient: University of Texas Health Science Center at Houston

The award enabled the University of Texas Health Science Center at Houston to recruit three leading scientists and surgeons in trauma care and next-generation medical technologies to improve the level of critical care that patients receive in an emergency.

Alliance for NanoHealth

TETF Award Amount: \$2,625,000

Award Date: August 23, 2006

Award Recipient: The University of Texas Health Science Center at Houston

The award provided support to hire Dr. Mauro Ferrari to head the Alliance for NanoHealth, which was created as an interdisciplinary, multi-institutional organization aimed at bridging gaps between medicine, biology, engineering, public policy, and nanotechnology.

Texas Therapeutics Institute

TETF Award Amount: \$6,300,000

Award Date: July 12, 2010

Award Recipient: The University of Texas Health Science Center at Houston

The award went to the recruitment of six researchers and the formation of a research pipeline between the University of Texas Health Science Center at Houston, University of Texas MD Anderson Cancer Center, and University of Texas at Austin. The institute coordinates and oversees collaborative drug development at these three institutions.

Children's Regenerative Medicine

TETF Award Amount: \$3,150,000

Award Date: July 28, 2011

Award Recipient: The University of Texas Health Science Center at Houston

This award helped recruit two researchers and enabled the expansion of the University of Texas Health Science Center at Houston's program devoted to discovering curative therapies for childhood conditions that use the body's regenerative powers to repair malformed organs and mitigate injury from illness or trauma. The center is researching the treatment of cerebral palsy, which was funded by TIRR Foundation, Mission Connect, and the Let's Cure Cerebral Palsy Foundation.

Southwest Academy for Nanotechnology (SWAN)

TETF Award Amount: \$10,500,000

Award Date: March 15, 2007

Award Recipient: The University of Texas System

The award helped the University of Texas at Austin Microelectronics Research Center (MRC) establish SWAN, in collaboration with the Semiconductor Research Corporation Nanoelectronics Research Initiative. The award enabled the MRC to attract globally-recognized researchers and their teams to the University of Texas at Austin, the University of Texas at Dallas, and the University of Texas at Arlington. The universities of Texas at Dallas and Arlington are members of SWAN, and collaboratively work to develop breakthrough nanoelectronics research.