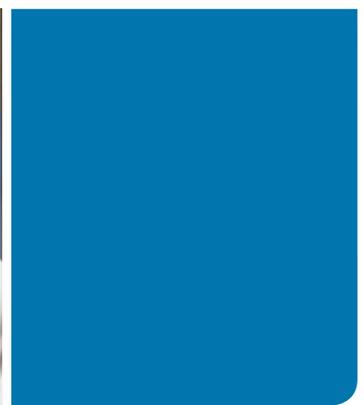


Lightening Energy • New Visual Media Group
 Switch2Health Corp. • 3D Biotek, LLC
 Infostat Inc. • Rational Affinity Devices, LLC

**The company we keep,
 keeps getting better.**

Frontier Performance Polymers Corporation
 Signum Biosciences Inc • Carbozyme, Inc
 TRIM-edicine, Inc. • AlfaGene Bioscience, Inc



New Jersey Commission on Science and Technology

Investing In Tomorrow's Technology Economy

2008 Annual Report

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New Jersey Commission on Science and Technology

Established in 1985, the New Jersey Commission on Science and Technology is responsible for the development and oversight of policies and programs promoting science and technology research and entrepreneurship in New Jersey. Commission members include business leaders, university leaders, scientists, and state and local government representatives.

Our Mission:

The New Jersey Commission on Science and Technology is determined to improve the quality of life for New Jersey's citizens and promote economic development by keeping New Jersey at the forefront of scientific and technological advances.

The Commission is committed to innovative and effective programs that will:

- **Promote** strong ties between industry and academic institutions in order to accelerate commercialization of new technologies;
- **Support** the emergence of science and technology based businesses and incubation in areas of strategic importance;
- **Collaborate** with public and private organizations to create economic opportunities and advance job growth;
- **Enhance** science and technology policy decision making at all levels of State government.

A Message from NJCST

Dear Friends,

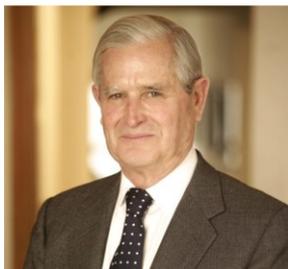
In 1985, the New Jersey legislature formalized its commitment to science and technology with the creation of the New Jersey Commission on Science and Technology. In the years since its creation, the Commission has taken the view that the quality of work and of life for New Jersey's citizens can be promoted through the development of academic and industrial partnerships that lead to the creation of many new high technology businesses. This combination of industry and academia in the state creates a culture that continues to attract leaders in the forefront of life science, communication, and energy technologies

The overall goal of the New Jersey Commission on Science & Technology is to develop and support programs that keep New Jersey at the forefront of scientific and technological developments. Through its programs the Commission looks to build relationships between academic, public, and private institutions that will advance developments in science and technology and promote economic growth.

Several programs have been created to support that vision. Together with the New Jersey Board of Public Utilities and the New Jersey Economic Development Authority, the Commission has implemented the Governor's strategy to position the state at the head green energy revolution. As a result, the Commission will proceed with new awards under the Edison Clean Energy Fund. This program will provide support to entrepreneurial companies developing clean or renewable energy and energy efficiency technologies and is modeled on the Commission's highly successful Edison Innovation Research and Development Fund.

In addition to these new innovation programs, the Commission recently awarded applications in its new workforce program, the New Jersey Entrepreneur Fellowship Program. This program was developed to provide New Jersey start-up technology companies with assistance in marketing and business development. The Commission will provide up to two years salary to a company for the employment of a recent MBA graduate from an accredited university.

Despite some economic uncertainty, the Commission continues to maintain and develop new and exciting programs that address the needs of technology companies and foster collaborative research partnerships. We thank the Commission members for their continuing commitment to these goals and to offer their time, effort and expertise to keep New Jersey at the forefront of technology growth.



James J. Coleman, Jr.
Chairman



Peter R. Reczek, Ph.D.
Executive Director

Fiscal Year 2008 at a Glance



The Commission on Science and Technology in Fiscal Year 2008 fulfilled its commitment to prior programming and refocused investments to more effectively support entrepreneurs and enhance the development of renewable and energy efficiency technologies.

Fiscal Year 2008 Results at a Glance	
Grants Awarded	59
Companies Directly Assisted	41
Amount Awarded	\$ 10,219,374
Funds Leveraged	\$ 15,387,148
Jobs created	>2,000

Assistance Programs

NJCST supports eight (8) programs that address all aspects of commercialization in start-up companies. Each program is grouped into four (4) broad categories reflecting the group served. The program areas are:

Technology Assistance Programs

- SBIR/STTR Training
- SBIR/STTR Bridge Grant

Entrepreneur Assistance Programs

- Edison Innovation Research and Development Fund
- New Jersey Technology Fellowship Program

Technology Incubator Programs

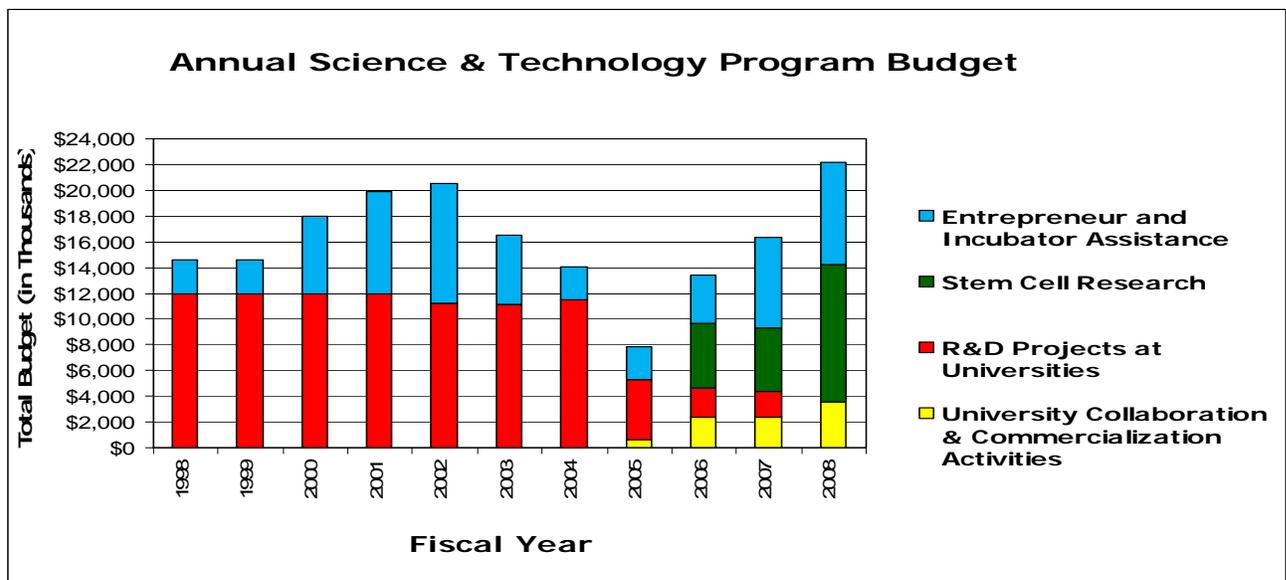
Incubator Seed Fund
Technology Incubator Network

University Collaboration

University Intellectual Property Program
Centers of Excellence Federal Matching Program

Program Budget

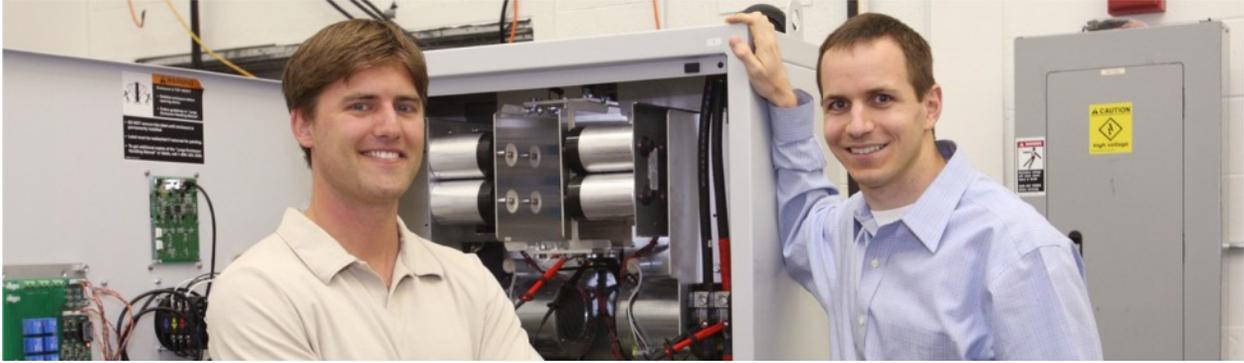
Since 2005, *NJCST* budget has improved steadily to a high of just over \$22M in fiscal year 2008, the highest level since 2002. This increase reflects the importance of the work of *NJCST* on economic development. Of particular importance, an increasing target of this budget has been support for those programs and technologies that have a clear commercialization path. This change in philosophy reflects the need to stimulate the New Jersey economy through support for efforts that create businesses and jobs.



Ratio of Funding

In Fiscal year 2008, 104 companies applied for the Entrepreneur Assistance Program grants. Of these, 41 companies received awards, a funding rate of 39% for all applicants. The Incubator Seed Fund Program had the highest funding rate (90%) while the Edison Innovation R&D Fund had the lowest funding rate (14%). The Edison Innovation R&D Fund is the most competitive of *NJCST* grants. Applicants' proposals are rated on the scientific and technical merit as well as the commercialization and business plan. However, the funding rate compares favorably with other Federal funding agencies for similar programs such as the National Institutes of Health and the Department of Defense.

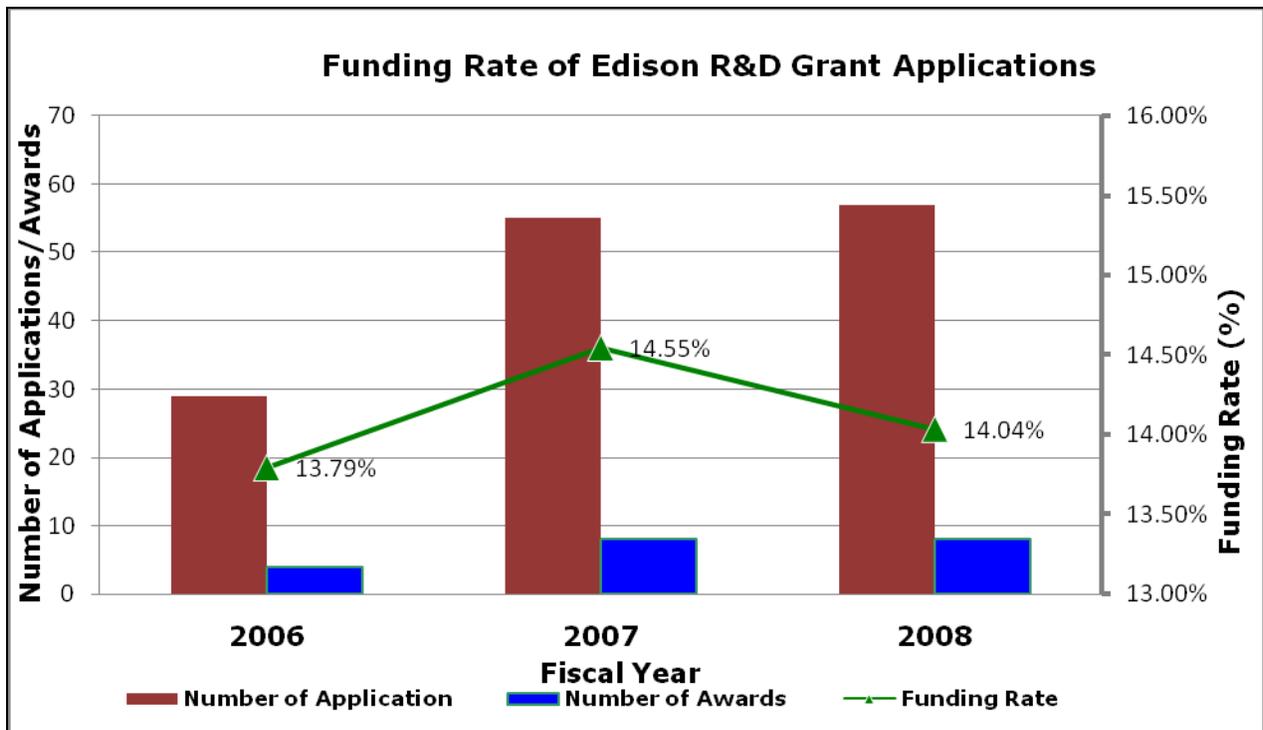
Technology Assistance Programs



Edison Innovation R&D Fund

The Edison Innovation Research and Development Fund is a unique program designed to fund proof-of-concept research opportunities at early-stage technology companies.

This highly competitive program offers companies grants of \$100,000 to \$500,000. In 2008 *NJCST* awarded \$4 million to eight companies and leveraged \$3,064,393 in matching funds for these projects. This year *NJCST* received 57 applications, a 2-fold increase in the number of applications received in 2006.



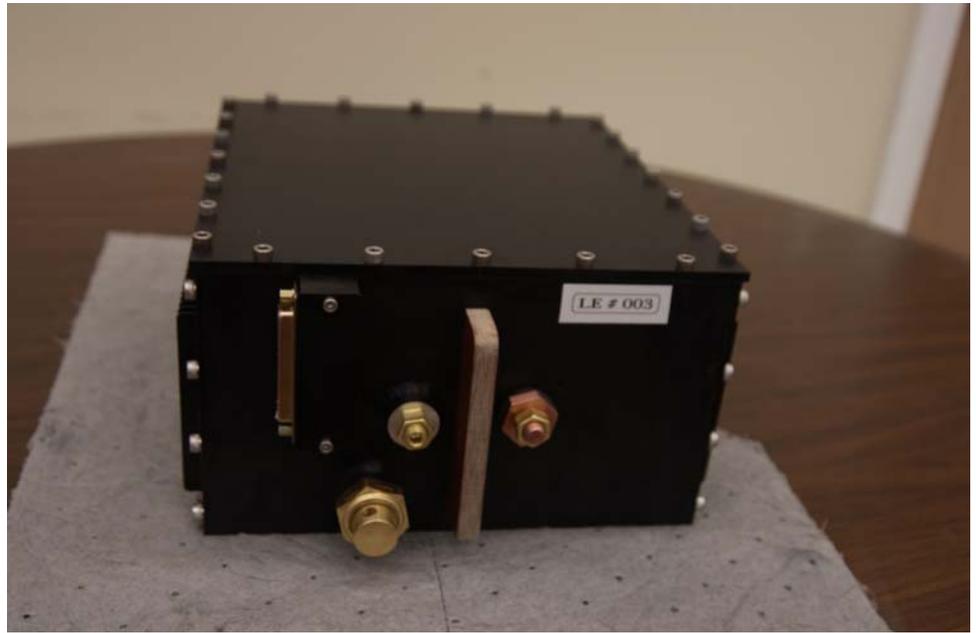
Clearer Communications

Located in Florham Park, Li Creative Technologies, Inc. advances state-of-the-art acoustic, speech, and signal processing technology. In 2008 Li Creative received an Edison Innovation R&D award to help the commercialization of a core technology previously developed through several federally funded SBIR Phase I and Phase II awards. Using this grant, Li Creative is commercializing the VoiceFocus™ Conference Phone with an eight-sensor circular microphone array, adaptive beam forming, advanced noise reduction, and adaptive echo cancellation. The conference phone provides improved voice quality for teleconferences and has several novel functions allowing the conference phone to be used with wireless handheld devices and internet phone services such as Skype. Li Creative has traveled the country demonstrating the advantages of its technology at several key communication conferences and will demonstrate the new conference phone at CES'2009 in Las Vegas.



The Green Energy Revolution

America is undergoing a serious change in its approach to energy consumption especially when it comes to the use of the gasoline powered automobile engine. Lightning Energy, LLC is at the forefront of these changes developing battery technology to be used in hybrid and electric vehicles. Located at the Picatinny Innovation Center in Dover, NJ, Lightning Energy has an advanced lithium-ion battery technology it has developed for powering military application as well as plug-in hybrid electric vehicles (PHEVs) and battery electric vehicles (BEVs). This battery is light-weight, modular, compact, safe, durable, and affordable design that enables significant travelling range. The funding provided by the Edison Innovation R&D award is being utilized to build automotive-scale prototype battery modules. In addition, the award has allowed Lightning Energy to accelerate third party testing and validation to mature the technology for commercial application. The award is playing a key role in attracting the possibility for additional investment from the US Department of Energy, and private investors to further develop Lightning Energy's battery technology.



*Lightning Energy's 40-mile PHEV Battery Module,
26V, 39Ah (1000 Wh)*

SBIR Program



SBIR Training

NJCST recognizes the need to bring increased federal research dollars to New Jersey technology companies.

NJCST addresses this need by providing financial support for conferences and information seminars in the form of an SBIR/STTR Training Grant. The purpose of this Training Grant is to educate New Jersey companies in the preparation for applications under the federal Small Business Innovation Research Grant (SBIR) and Small Business Technology Transfer funding (STTR) programs. These programs provide funding through specific federal agencies (such as the Department of Defense or Department of Homeland Security) for the development of innovative technologies.

In 2008 **NJCST** sponsored seven conferences and information seminars through the SBIR/STTR Training Grant. In addition to these seminars, this program added "proposal preparation assistance" a new feature designed to increase the competitiveness of applications

submitted by NJ companies to federal SBIR/STTR programs. This new feature offered selected companies up to twelve hours of additional preparation assistance in the form of reviews, advice, and critiques of their federal applications and proposals.

SBIR Bridge Grant

The SBIR Bridge Grant program was developed in 2004 to help companies bridge the gap that occurs between Phase I and Phase II federal Small Business Innovation Research (SBIR) Grant awards. The program offers up to \$50,000 to a New Jersey technology company that has finished a Phase I award and received confirmation of a Phase II award. The funding can be utilized to retain current employees, hire new staff, protect intellectual property, and purchase necessary equipment. In 2008 the **NJCST** awarded \$150,000 to three companies leveraging approximately \$2.5 million in federal research funds.

A Better Way to Hear

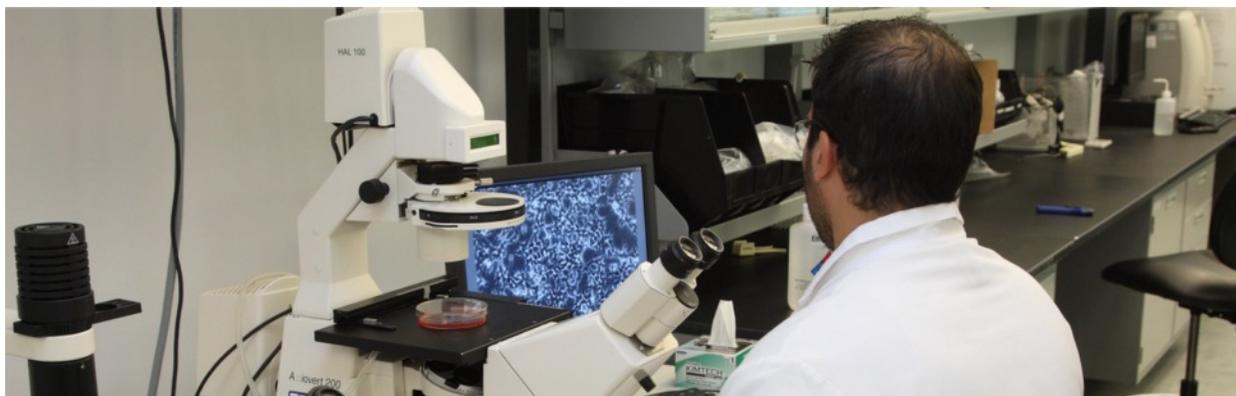
mh Acoustics LLC is a Summit NJ company that develops acoustic signal processing technologies aimed at advancing sound capture and processing based on Bluetooth headset technology. This technology was awarded an SBIR Phase II grant to further development. The microphone array is used to sample the acoustic sound field around the ear pinna during wind and non-wind conditions. Special Digital signal processing of the microphone signals allows one to remove the undesired wind-noise component from desired acoustic signals from far field speech.

mh Acoustics, LLC was awarded an SBIR Bridge grant in the amount of \$50,000.. This award allowed mh Acoustics to retain employees and purchase equipment during the gap in its funding. It also allowed the company to construct a multichannel acoustic database of different environmental wind-noise conditions that will greatly improve the performance of their hearing device in everyday use.



Small 30-element electret microphone array designed and constructed by mh Acoustics

Entrepreneur Assistance Program



Technology Fellowship Program

The Technology Fellowship program is dedicated to the memory of Dr. William Oliver Baker, founding member of the New Jersey Commission on Science and Technology. Dr. Baker was president of Bell Telephone Laboratories from 1973-1979 when Bell Labs scientists twice received the Nobel Prize in Physics.

This program presents a unique opportunity for early-stage technology companies and post-doctoral graduates from research universities to work together. Tech Fellows benefit by gaining valuable industry experience that they may not have had at larger companies. Companies benefit by getting highly skilled employees and building collaborations with university laboratories.

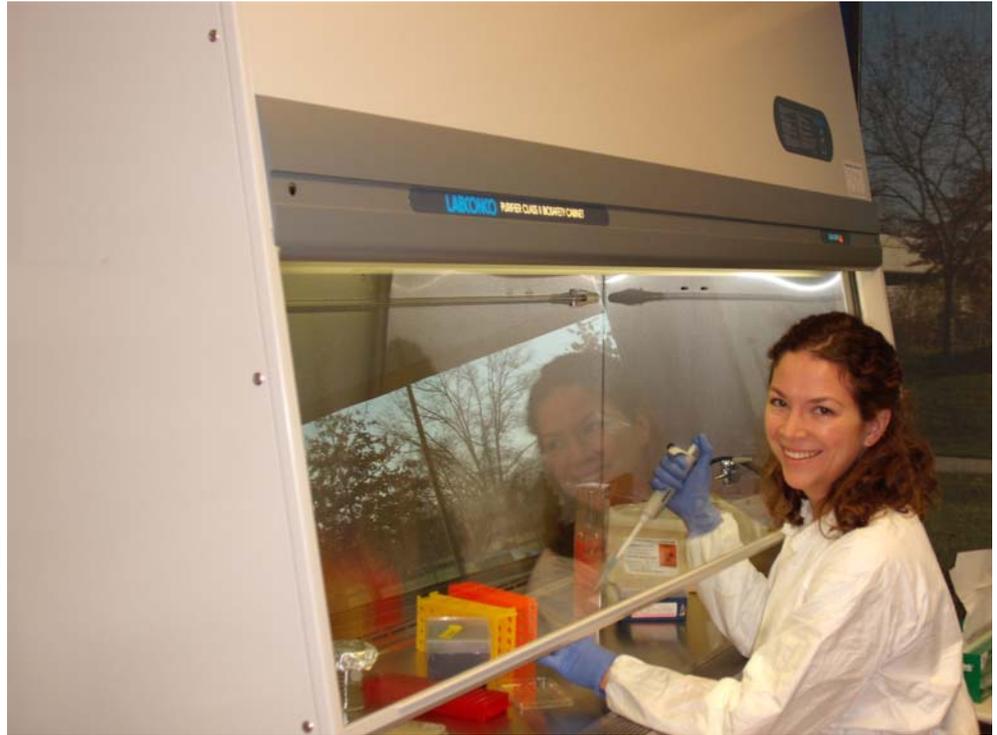
This program provides salary to support these employees for up to two years. In 2008 **NJCST** awarded 21 Technology Fellowships – 15 of which went to new Technology Fellows in their first year after graduation.



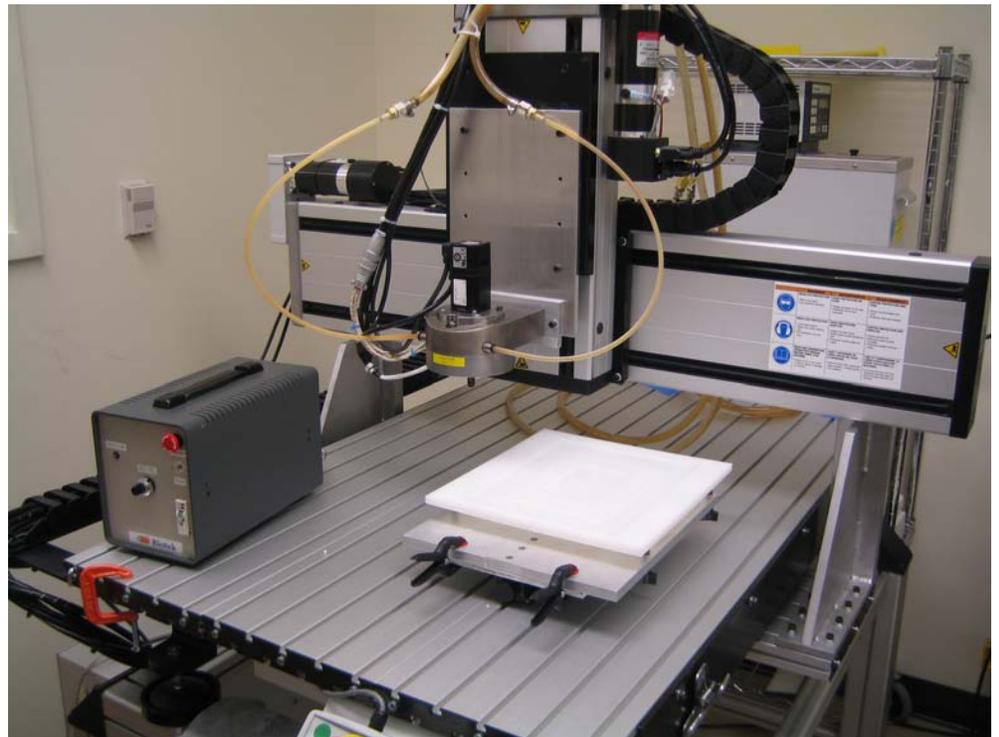
*Steven Greco, Ph. D.
at Neurotez*

Development of Cell Technology

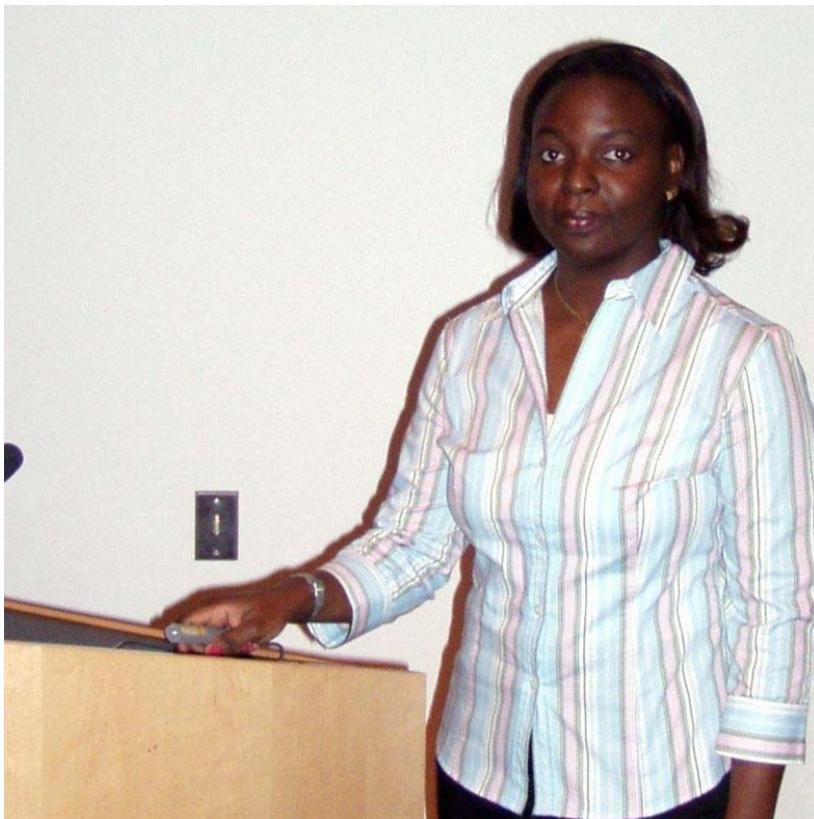
Dr. Marika Bergenstock is using the technology fellowship by working with 3D Biotek, LLC, a company that is located in the Commercialization Center for Innovative Technology in North Brunswick. Currently the company is working to commercialize 3D Insert™ – PS, a series of novel 3-dimensional (3D) porous scaffolds fabricated from non-cytotoxic and crystal clear polystyrene (PS) for 3D cell / tissue culture applications. The use of 3D Insert™-PS in stem cell research and drug discovery will provide more realistic physiological results from in vitro cell/tissue culture studies. As a result, the use of 3D Insert™ – PS will decrease the overall therapeutic and pharmaceutical product development cost and shorten the time to market



*Marika Bergenstock, Ph. D.
working on tissue culture at 3DBiotek LLC*



*Commercial scale PED system
designed and assembled at 3D Biotek, LLC*



Oyenike Olabisi, Ph. D. at Snowdon Pharmaceuticals, Inc. working to develop novel and safe anticancer therapies.



Christopher Ferrante PhD at TRIM-edicine, Inc. working on novel protein to repair damaged cell membrane

Drug Discovery

Dr. Olabisi was awarded a Technology Fellowship in order to work with Snowdon Pharmaceuticals Inc. which was established in October 2005 as a UMDNJ spinoff. The company is currently working on drug discovery specializing in the development of therapeutic agents in the areas of cancer, pain management, and infectious diseases. Snowdon utilizes its core capabilities in computer-aided molecular design to identify, design, and optimize prospective drug candidates. Dr. Olabisi is building upon her expertise in oncology to discover a novel family of anti-cancer therapies.

Cell Repair and Revitalization

Dr. Christopher Ferrante works at TRIM-edicine, Inc. a North Brunswick Biotechnology Company involved in the development of novel pharmaceutical products for treatment of medical conditions related to dermal injury, oral health and wound healing. His work is focused on the ability of a novel protein, named MG53 that has a unique capacity to repair acute damage to the cell membrane and may be useful as a tissue repair agent.

Technology Incubator Program



Technology Incubator Network

In an increasingly uncertain fiscal environment it is important for start-up companies and businesses to have as much assistance and guidance as possible. Business Incubators can provide a significant amount of help to a start-up company and can increase the possibility that the company will develop and become successful. The funding in this program is designed to help Incubators support their clients and tenants with valuable services. The services provided by **NJCST** supported Incubators in this program include:

- Entrepreneur- in- residence providing one- on-one mentoring, milestone tracking, etc.
- Client training programs in finance, marketing, business planning, etc.
- Seed fund or cash match programs to subsidize clients' needs for university support, grant writing, marketing collateral, prototyping, development of manufacturing strategies, trade show attendance, patenting and license fees, access to business professionals, etc.
- Incubator manager and client company professional development training, etc.
- Incubator marketing and strategic development plans particularly in collaboration with other incubators.
- Business plan competitions and other community outreach activities and forums.
- Shared laboratory equipment may be considered on a case by case basis.

NJCST supports 13 high technology incubators in the state which provide laboratories, offices and business commercialization services to approximately 320 emerging life science and high technology companies, the state's next generation high technology manufacturers.

In Fiscal year 2008, the Technology Incubator Network program achieved significant results including;

- Graduating 55 firms
- Raising approximately \$114 million in third party funding
- Generating approximately \$209 million in revenues
- Creating more than 1,600 jobs by New Jersey incubator companies
- Supporting approximately 560 residential and virtual client companies

ACIN Anchors Growing Technology Hub in Camden

The ACIN Camden Center for Entrepreneurship in Technology was opened in 2001 in partnership with the Department of Defense and Drexel University. It was created with two core objectives:

- Develop cutting-edge communications technologies to support military needs;
- Create economic growth and development in Camden's Edison Innovation Zone.

ACIN is home to more than 60 participating high technology businesses and is the anchor of a growing technology hub in Camden. Eight years later, with the help of **NJCST**, ACIN continues to meet its milestones and objectives and is fostering an emerging entrepreneurial renaissance along the Camden Waterfront. ACIN has a robust program that provides technology entrepreneurs with the resources they need to create high-growth enterprises that are focused in military and commercial channels.

Since its founding, ACIN businesses have collectively raised more than \$200million in government contracts and generated more than 300 high technology jobs in Camden. ACIN is gaining a national reputation as a place for high technology entrepreneurs and startups to gain a foothold in the defense industry.

Enhanced Battlefield Technologies

Located in the ACIN Camden Center Gestalt, LLC is one of many successful companies that have been started in at ACIN with the support provided by Commission funds. In 2008 Gestalt was acquired by Accenture LLP and with the success of that merger, Accenture has become a leader in the development of command and control systems that help defense organizations collaborate and share battlefield information from separate branches of the armed services in support of joint military operations. At the time of the acquisition, Gestalt employed approximately 300 employees nationwide with 75 team members in Camden. "From helping prepare our armed forces for combat, to maximizing the efficiency of their supply chain, to energy management, to delivering critical military information from multiple data systems, the capabilities we offer defense clients and their customers will help them meet their vital mission goals and achieve high performance," said Eric Stange, managing director of Accenture's U.S. Defense industry group.

The NJIT Enterprise Development Center

The New Jersey Institute of Technology Development Center, located on the NJIT campus in Newark, NJ, accelerates the successful development of entrepreneurial companies through an array of business support services. The EDC's main goal is enterprise creation and innovation development. The EDC provides companies and innovators with commercialized technology a high-rate of success. Companies that graduate from the incubator create high technology jobs and advance critical technology development in the state.

This is the 20th year that the NJIT Enterprise Development Center has been in operation

The EDC currently provides programming that assists entrepreneurs and client companies with technology development through university and industrial support. In addition, business services are available to client companies to help them develop a business plan, assist with proposals to government agencies, and give advice on developing business relationships

with research institutions and other companies. In 2008 there were over 80 companies in the program employing 320 individuals and providing training opportunities for close to one hundred students. The companies had combined revenue of \$34.3M and have raised an additional \$45M in 3rd party funding. Fifteen companies graduated from the EDC in 2008 alone.



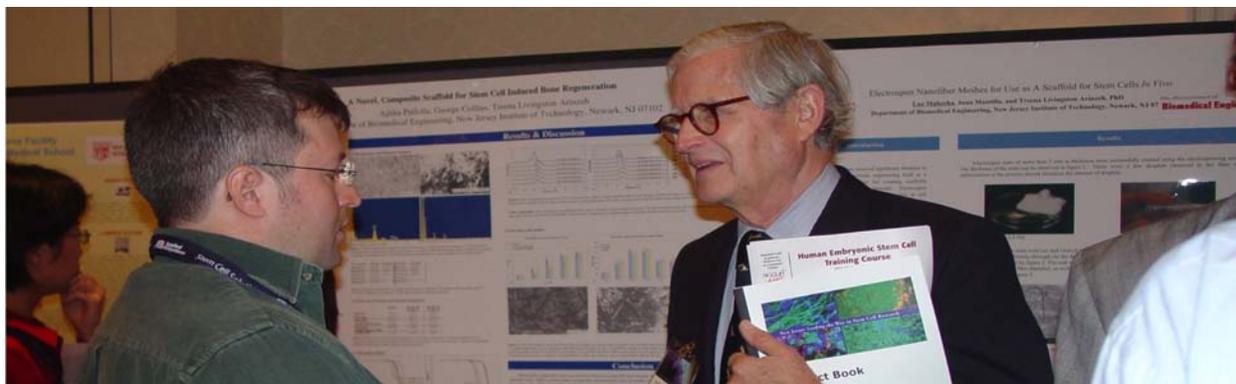
Critical Information for First Responders

BanDeMar Networks, LLC is a small business in the Enterprise Development Center specializing in signal and image processing for advanced educational technologies. BanDeMar has created a technology platform that delivers instructional multimedia to cell phones, regardless of their carrier or manufacturer, and without the recipients having to install any software, change phone settings, or initiate any download. This technology has received several awards including a National Institute of Health Phase II award to develop "Just-In-Time Training for Emergency Incidents System" or JITTEIS



BanDeMar's JITTEIS

Other Collaborations

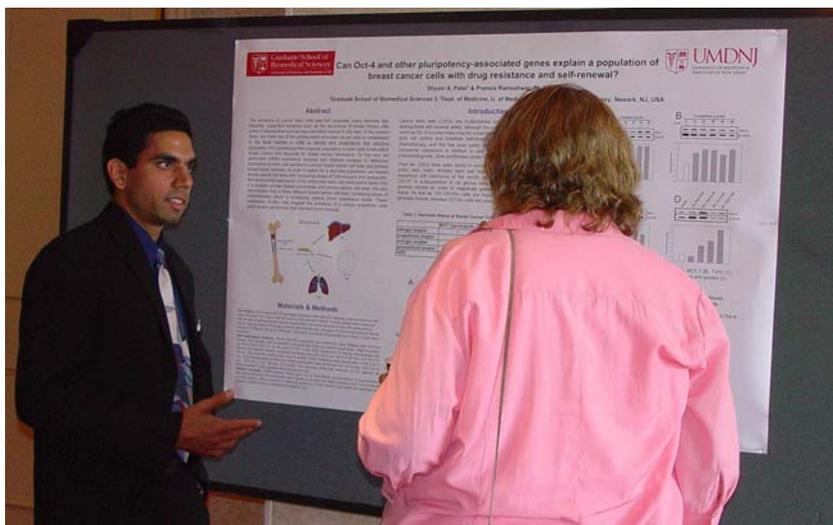


Stem Cell Symposium

In September 2008, the New Jersey Commission on Science & Technology hosted its 4th Annual Stem Cell Symposium at the Bridgewater Marriott Hotel. This year the symposium was held in collaboration with Applied Biosystems Incorporated and Rutgers Stem Cell Research Centre and was expanded to a two day event.

The Keynote Speaker, Andreas Androutsellis-Theotokis, Ph.D., Staff Scientist at the Laboratory of Molecular Biology, National Institute of Neurological Diseases and Stroke, National Institutes of Health, spoke of the regenerative potential of the adult mammalian brain.

This event showcased posters and abstracts detailing breakthroughs in research from more than 50 New Jersey scientists. Presentations were made by leading scientists from various New Jersey institutions as to the importance of stem cell research and translational therapeutics in the treatment of diseases and severe injuries. These presentations included some of the previous New Jersey Stem Cell Research Grant recipients. Over 400 scientists, students, industry representatives, and investors gathered together to discuss the continuation of this important work.



*Shyam A Patel
MD/Ph. D. Candidate
New Jersey Medical School*

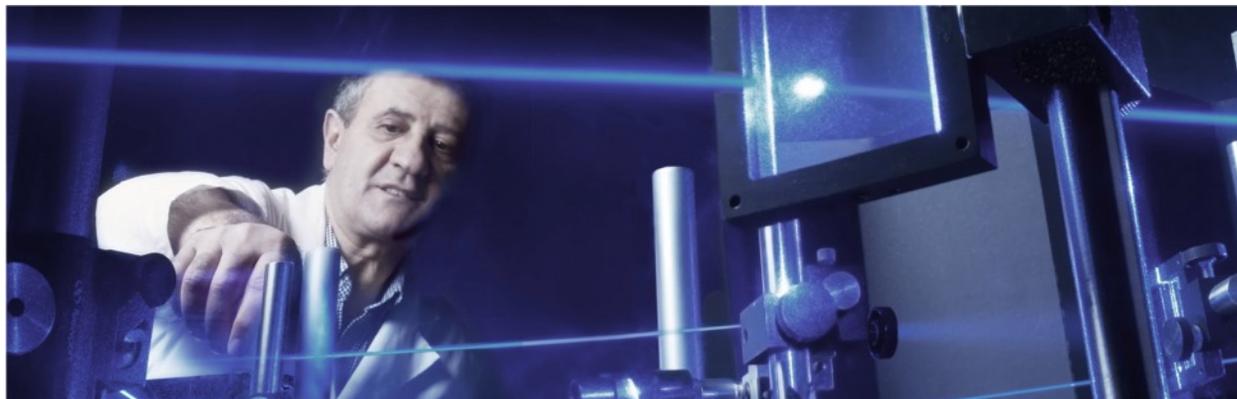


Edison Innovation Zone Roadshow

NJCST in conjunction with the New Jersey Economic Development Authority (NJEDA) held a series of networking and information sessions related to technology and life science business development. These "Roadshows" were designed for businesses, service providers, state universities and research institutions to provide specific information concerning programs provided by NJCST and NJEDA. These programs can be a source of financing for early stage companies or can help finance an established technology or service towards commercialization. This year 8 presentations were given at the Edison Innovation Zones located in specific areas of the State with well over 200 attendees

*Rutgers Food Innovation Center
New Incubator*

Success Stories from Our Files



NJCST is proud to play a small part in the accomplishments of our applicant companies. The following companies maximized their potential technologies and services by utilizing various programs of **NJCST**.

New Approaches to Drug Therapies

Aestus Therapeutics, Inc. is a start-up biopharmaceutical company located at the NJEDA Commercialization Center for Innovative Technologies in North Brunswick. The company has developed a proprietary process for mining both public gene expression and pharmaceutical data, in order to derive new insight on biological pathways underlying targeted diseases.

Aestus has received several awards from **NJCST** to help develop its therapies. In 2007 Aestus received an Incubator Seed Fund award to file for a patent and to initiate testing of its therapies in animal studies. In 2008 Aestus received an Edison Innovation R&D award to further develop its therapies towards commercialization. It also received a 1st Year Technology

Fellowship award in 2008 for the employment of Dr. Meredith Prysak and a subsequent 2nd Year Fellowship in 2009. These awards have allowed Dr. Prysak to advance the work being done at Aestus while providing her with substantial industry experience.

Nanofabrication Technology

In fiscal year 2007 MicroDysis received an Entrepreneurial Partnering Fund (now the Edison Innovation R&D Fund) award from **NJCST**. This award allowed MicroDysis to develop their nanofabrication technique to increase the detection and sensitivity in their biochip technology. This in turn will allow Microdysis to advance a protein array platform for early detection of prostate cancer through a recently awarded federal SBIR Phase I award.

“As with most of our achievements, they would not have been possible without the Commission on Science & Technology’s assistance and support,” stated Dr. Joseph Huang, President of MicroDysis, Inc.

Looking Towards the Future



New Programs in Fiscal Year 2009

NJCST continuously evaluates its programs to ensure that the needs of the high technology community are being addressed. **NJCST** introduced two new programs during fiscal year 2009 to further strengthen its portfolio and enhance its goal of providing early-stage support to startup New Jersey companies of outstanding potential. These new programs will focus **NJCST's** investments to effectively support entrepreneurs and enhance the development of renewable and energy efficiency technologies.

New Jersey Technology Entrepreneur Program – a fellowship program designed to bring recent MBA graduates into the start-up technology company

Edison Innovation Clean Energy Fund – a unique collaboration with the NJBPU that will support early stage development of clean energy technologies

The New Jersey Technology Entrepreneurship Fellowship program is aimed at providing a funding

mechanism for recent MBA graduates who wish to develop their careers in an entrepreneurial environment. This program is the first of its kind in the United States to bring highly trained future business leaders into small technology companies where they can grow along with the businesses they support and bring an added dimension to the science driven environment.

NJCST, in collaboration with the New Jersey Board of Public Utilities and its Office of Clean Energy has launched the Edison Innovation Clean Energy Fund to encourage entrepreneurs to develop the clean energy technology sector in New Jersey. The program funds projects focused on technologies that support innovative clean energy using Class 1 renewable energy sources and energy efficiency technologies.

Commission Members

As of December 2008

James Coleman Jr., Chairman

Mr. Coleman, Jr. is chairman of International Matex Tank Terminals (IMTT). IMTT's terminals serve North America's dynamic distribution centers at both ends of the Mississippi Valley, at both ends of the Great Lakes/St. Lawrence River System, on the Atlantic Coast in New York and Virginia, and on the Pacific Coast. Mr. Coleman, Jr. has been serving as chairman of NJCST since 2003.

Alain L. Kornhauser, Ph.D., Vice-Chairman

Dr Kornhauser is professor of Operations Research and Financial Engineering, Director of the Interdepartmental Transportation Research Program, and Co-Director of the Center for Transportation Information and Decision Engineering at Princeton University. He is also founder of ALK Technologies, a transportation technology company based in Princeton, New Jersey. Dr. Kornhauser's recent research includes the application of large-scale network models, stochastic optimization techniques, and computer graphics to transportation problems.

Mario M. Casabona is founder, President & CEO of Casabona Ventures; a New Jersey based company providing management services, strategic planning, and early stage investment capital to technology driven start-up companies. Prior to this, Mr. Casabona was the founder and CEO of Electro-Radiation Inc. (ERI), a developer of Radar, Navigation and Communications technology for the Defense Industry. Mr. Casabona, Chairman of NJ Jumpstart Angel Network and Chairman Emeritus of the Research and Development Council of New Jersey, also serves on several academic and industry advisory boards.

Peter Eisenberger, Ph.D., professor, Earth and Environmental Sciences Department, Columbia University and former head of the Princeton Materials Institute, Princeton University. Dr. Eisenberger is co-chair of the National Advisory Board for a new science center in Tucson, Arizona. A fellow of the AAAS and the APS, he is leading an effort to devise a new way for professional societies to advise Congress.

Richard Goldberg, Vice President of Public Affairs for DRS Technologies, Inc., one of the nations leading defense contractors, headquartered in Parsippany, New Jersey. He was formerly the president of the Commerce and Industry Association of New Jersey and the former Executive Director of the American Electronics Association (AeA), and vice president of the Association of Food Industries, Inc. Mr. Goldberg's areas of expertise include media and government relations, business development, and marketing communications.

S. Yee Lee, Ph.D., Chairman and CEO of Yee Enterprise Solutions, Inc. Dr. Lee is a former AT&T Vice President of Software Systems, named an AT&T Fellow in 2001. Dr. Lee holds a Master's and PhD in Electrical Engineering and Computer Science from the University of Pennsylvania. He has completed Advanced Management and Executive MBA programs at the Harvard University School of Business. Dr. Lee recently formed partnerships with Motorola, Quorum and Sunwah Group to deploy RFID technology applications and auto dealership management systems worldwide.

Gregory Olsen, Ph.D., President, GHO Ventures in Princeton, NJ where he manages his "angel" investments. Dr. Olsen received a BS Physics a BSEE and MS Physics from Fairleigh Dickinson University,

then was awarded a Ph.D. in Materials Science from the University of Virginia. He co-founded Sensors Unlimited, a near-infrared camera manufacturer in 1992. In October, 2005 Dr. Olsen became the third private citizen to travel to the International Space Station where he performed more than 150 orbits of the earth and logged almost 4 million miles of weightless travel during his 10 days in space.

Senator Robert W. Singer Senator Singer represents the 30th District, which includes parts of Ocean, Monmouth, Burlington and Mercer counties. He served three terms in the General Assembly, where he acted as Majority Whip from 1992 to 1993. He serves on the Ocean County Board of Health as Vice Chairman, the Board of Trustees of Georgian Court University in Lakewood and as a member of the Board of Directors of the Monmouth-Ocean Development Council.

Assemblyman Upendra J. Chivukula represents District 17, including parts of Middlesex and Somerset counties. He began his political carrier in 1997 as councilman for Franklin Township. Currently he is serving his fourth term in NJ General Assembly. He has a Masters in Electrical Engineering from City University, New York. Assemblyman Chivukula has extensive technical and business experience from his work at AT&T Bell Laboratories. He is chairman for the Telecommunications and Utilities Committee.

Assemblyman John E. Rooney represents District 39, including towns in Bergen County. He began his political career in 1976 as a councilman of Northvale. He served in the Air Force from 1961 to 1965. He was elected to the assembly in 1983. Assemblyman Rooney graduated from Rutgers University with a B.S. in Business Management. He also holds an A.A.S. degree in Language from Syracuse University.

Lucille Davy, Commissioner of the New Jersey Department of Education Lucille E. Davy has served as New Jersey's Commissioner of Education since 2005. She holds a bachelor's degree in mathematics from Seton Hall University and a juris doctorate from the University of Notre Dame School of Law. Commissioner Davy is a New Jersey certified math teacher, has taught at local and collegiate levels, and has been involved in education policy matters for more than a decade.

Angie McGuire was appointed Deputy Chief in the Governor's Office of Economic Growth for the state of New Jersey in March 2006 and also serves as a member of the NJEDA Board. She has more than 20 years in the Computing and Communications Industries at Lucent Technologies, NCR and AT&T. Ms. McGuire received her undergraduate degree in Economics and a Masters in Public Administration.

Robert Altenkirch Ph.D., President, New Jersey Institute of Technology. Under Dr. Altenkirch's leadership, NJIT has developed a focused strategic plan emphasizing national prominence for a number of NJIT's academic and research strengths, recruiting high-achieving students from diverse backgrounds, increasing research funding, improving campus quality of life, and community engagement.

Harold Shapiro Ph.D., President Emeritus, Princeton University; University of Michigan. Dr. Shapiro served as Princeton University's 18th president and as chair of the President's Council on Bioethics for President Clinton. He is chair of the New Jersey Stem Cell Ethics Advisory Panel.

Commission Staff



Peter R. Reczek, Ph. D.

Executive Director

Joseph Tetteh

Associate Director for Business Relations

Arti Sahni

Program Associate and Communications Director

James Patterson

Grants Administrator

Ross Randolph

Office Manager

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www.nj.gov/scitech

To learn more about opportunities for business growth throughout New Jersey, visit the state's business portal at www.NewJerseyBusiness.gov

The logo features a purple silhouette of the state of New Jersey on the left. To its right, the text "New Jersey" is in a bold, sans-serif font, with "Commission on" in a smaller font below it. The words "Science & Technology" are in a large, bold, sans-serif font, with "Science" and "Technology" on separate lines. Below the logo, the phone number "609-984-1671" and the website "www.nj.gov/scitech" are listed in a bold, sans-serif font.

New Jersey
Commission on
**Science &
Technology**
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