

# SUNY'S Impact on New York's Congressional District 2

# 2009

Prepared for  
Representative  
Steve J. Israel  
District  
**2**

Farmingdale State College offers a comprehensive base of programs in the applied sciences and technology. The college has unique bachelor's programs in bioscience, aviation, visual communications, applied economics, applied psychology, and security systems. Farmingdale is the largest of SUNY's Technology Colleges and the second-largest four-year SUNY institution in the Downstate region, with about 6,800 students and 24 bachelor degree programs. In addition, Farmingdale has programs in business management, computer programming and information systems, engineering technology, health sciences (nursing, dental hygiene, and medical lab technology), and the Arts and Sciences. Interconnections to industry—through such settings as the Broad Hollow Bioscience Park, the Institute for Research and Technology Transfer, and the Applied Mathematics Center—allow the institution and its graduations to have a significant economic impact in the business, industrial, and service communities of Long Island. The College is building a new Students Center, a new School of Business, and a new Library Commons, and has opened a new baseball stadium and a new lacrosse/soccer field to support its NCAA Division III athletics program.

## District Impact Summary

### Human Impact

**Students: 6,850**

**Employees: 1,239**

**Alumni: 61,411**

**Degrees Since Inception: 72,610**

### Economic Impact

**Total All Funds Expenditures: \$93.5 million**

**Payroll: \$43.2 million**

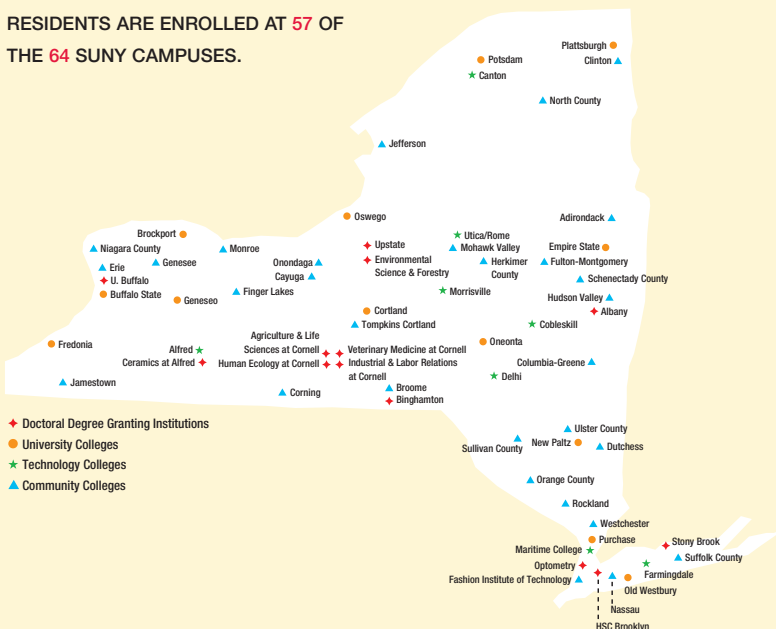
**Capital Construction: \$16.4 million**

**Research and Grant Activity: \$1.86 million**

*(Source: Research Foundation, SUNY, FY 2007-2008)*

*Unless otherwise noted, data is based on information from the State University of New York Office of Institutional Research and Analysis for academic year 2007-2008.*

MORE THAN **19,317** DISTRICT RESIDENTS ARE ENROLLED AT SUNY. DISTRICT RESIDENTS ARE ENROLLED AT **57** OF THE **64** SUNY CAMPUSES.



Farmingdale State College



## SUNY's Impact on Long Island

With combined total expenditures of \$2.245 billion per year, the five SUNY campuses located in Nassau and Suffolk counties: Stony Brook University, Old Westbury, Farmingdale State College and Nassau and Suffolk County Community Colleges, provide key economic development resources for Long Island. These colleges have capital construction budgets of \$213 million and attract millions of dollars of research funds in the areas of wireless internet and information technology, biotechnology, engineering, cyber security, biodefense, small business development, public safety, medicine, workforce development and other areas. They enroll 81,700 students, employ more than 23,682 faculty and staff, and grant more than 13,815 degrees annually.

## Long Island Impact Summary

Campuses: 5

Enrollment: 81,700

Alumni: 415,468

Employees: 23,682

Degrees Since Inception: 491,234

Total All Funds Expenditures: \$2.245 billion

Payroll: \$1.1 billion

Capital Construction: \$213 million

Research and Grant Activity: \$1.86 million

(Source: Research Foundation, SUNY, FY 2007-2008)

*Unless otherwise noted, data is based on information from the SUNY Office of Institutional Research and Analysis for academic year 2007-2008*

## SUNY Campuses on Long Island Place High in National and International Rankings

### ● Kiplinger's Personal Finance

— 2008-Stony Brook ranked 39th on the list of *100 Best Values* in public colleges.

### ● U.S. News & World Report

— 2008-SUNY Old Westbury ranked 2nd in the category of most diverse liberal arts school, 18th among 265 national liberal arts colleges with the least debt among its graduates, and 2nd most racially diverse.

— 2008-Stony Brook University ranked 45th in the *Top 50 Best Public National Universities*, 96th in *Best National Universities*, 127th in the *Top 200 World's Best Colleges and Universities*, and 57th among the *Best Engineering Schools*.

— 2001-Farmingdale State's program in Engineering Technologies was cited among the best.

### ● Robert Aumann, a part-time faculty member at Stony Brook, was awarded the Nobel prize in Economics in 2005. Paul Lauterbur earned the 2003 Nobel prize in medicine for the pioneering work on the development of Magnetic Resonance Imaging (MRI) he did at Stony Brook.

## Other SUNY Resources on Long Island

- The **Solar Energy Center** of Farmingdale State College is the site of the first utility scale photovoltaic demonstration project in the north-east. Starting in 1992, four 20 KW units were installed at various locations on campus. With support from LIPA and KeySpan, the college works on the short term and long term needs of local industry by providing training in installation and maintenance of PV panels as well as planning annual energy conferences. It is accredited as a Training Institution and Continuing Education Institution on Solar Energy by the Institute of Sustainable Power and is the first such center to be accredited in the Northeast and the fourth in the USA.
- The Farmingdale State College **Bioscience Research Laboratory** team will investigate the role of dendritic cells and heat shock proteins in generating and sustaining immunological disorders, especially rheumatoid arthritis, supported by the College's first NIH grant. The three-year, \$208,000 grant, awarded to Dr. Frances Santiago-Schwarz, was received through the National Institutes of Arthritis, Musculoskeletal and Skin Diseases.
- **Institute for Research and Technology Transfer (IRTT)** at Farmingdale State College provides the industrial community with state-of-the-art technology in the areas of Robotics and Automation, Thermal Spray, Computer Numerical Controlled (CNC) machining centers and turning centers, Stereolithography and Rapid prototyping, Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and Finite Element Analysis (FEA).
- The **Center of Applied Mathematics** is currently working on several projects for industry, state government and Farmingdale State. Student teams work on the projects such as traffic flow under faculty supervision.
- **Center of Excellence in Wireless and Information Technology** at Stony Brook is mandated to sustain and enhance global leadership for New York in the ongoing information technology revolution, focusing on new wireless technologies, networking, software systems and architectures, and communication devices and infrastructure, and applications for the healthcare, transportation and m-commerce sectors.
- The **CAT in Medical Biotechnology** at Stony Brook University is involved in the discovery, development, translation and commercialization of promising biotechnology resulting from academic research centers around New York State. The Center identifies commercially promising technologies that will lead to accelerated product development cycles, increased corporate revenues, or new company formation.
- The **Center for Advanced Technology in Sensor Systems** at Stony Brook University provides an organizational framework and intellectual and material resources for industry-university research collaborations to develop infrared, optical, x-ray, magnetic, and MEMS-based and superconducting electronic sensor technologies for applications including homeland security and national defense, clinical care and biomedical research, and mobile systems.
- The **STAR Center in Biomolecular Diagnostics and Therapeutics** at Stony Brook will be a state-of-the-art enterprise dedicated to discovery-based research and technology development in the areas of functional genomics instrumentation, gene discovery, drug design and delivery, and smart micro- and nano-based biomaterials and biosensors.
- Old Westbury is a hub of **mathematics education** on Long Island. It is the home of the prestigious Institute of Creative Problem Solving for Gifted and Talented Students, the successful Long Island Mathematics Conference and the Institute of Leadership Development for Teaching Mathematics and Technology. Combined, these programs provide in-service training for more than 500 teachers annually.



- [Brookhaven Science Associates, LLC \(BSA\)](#) is a limited liability company formed by Battelle Memorial Institute and the Research Foundation on behalf of Stony Brook to operate the world-famous Brookhaven National Laboratory. The partnership gives Stony Brook, the largest institutional scientific user of Brookhaven, greater access to its facilities and staff, 600 research programs and the more than 4,000 visiting scientists from around the world who are conducting research in fields ranging from high energy physics to medicine to environmental science.
- [Broad Hollow Bioscience Park](#), developed on the campus of Farmingdale State College in conjunction with Cold Spring Harbor Laboratory, nurtures young biotech firms.
- [Calverton Business Incubator](#) is managed by Stony Brook University and, reflecting the traditional strengths of the East End of Long Island, will nurture the development of new agriculture, aquaculture, and environmental technologies.
- The [Long Island High Technology Incubator \(LIHTI\)](#), located on the Stony Brook campus, is New York's most successful incubator.
- The [Stony Brook Software Incubator](#) provides an ideal setting for the start-up and successful growth of the next generation of software developers and manufacturers.
- Through the [NYS Small Business Development Center](#), SUNY administers five campus-based regional and outreach centers that provide expert management, technical assistance and training to start-up and existing businesses on Long Island. These SBDC's are located at Farmingdale State College, Stony Brook University, Southampton, Brookville, and Patchogue.
- [Sayville Center](#). Operating the largest nursing program in the State, Suffolk County Community College has established seven hospital partnerships, attracting over \$7 million to support the education of the region's next generation of nurses.
- [Empire State College](#) provides undergraduate and graduate degrees through three regional centers and units located on Long Island, Hauppauge, Old Westbury, and Riverhead.
- Through research completed at the [Institute for Research and Technology Transfer](#), Dr. Hazem Tawfik and the Research Foundation (RF) were awarded the College's first U.S. patents in renewable energy technology. The first is a bipolar metal plate Proton Exchange Membrane (PEM) fuel cell that will make fuel cells more durable, cost effective and commercially viable. The Metallic Bipolar Plate Technology will produce clean energy and clear water as its main by-product. The second is for a Fuel Cell Stack which will contribute to the safety of the system.