

SHARPENING NEW YORK'S COMPETITIVE EDGE

SUNY centers, initiatives and partnerships around the state are advancing research, innovation and economic development that are making New York more competitive.



Long Island High Tech Incubator at Stony Brook – A cornerstone of the high-technology on Long Island, this incubator has helped jumpstart dozens of companies since it opened in late 1992. It was ranked the No. 1 mixed-technology incubator in the US in 2003 by the National Business

Incubation Association and serves as a model for other incubators around the country.

Since its inception, the Stony Brook Incubator has spawned more than 44 successful companies. Of these, five are now publicly traded. Each year, more than \$3 billion is pumped into the national, regional and local economies by incubator graduates.



New York State Small Business Development Center – A network of 23 regional centers, the New York State Small Business Development Center delivers high quality business counseling and training to New Yorkers who want to start a business or improve the performance of an existing business. Partnerships

with the public and private sector enable SBDC to offer services free of charge.

Since its creation in 1984, SBDC has worked directly with 271,445 businesses, helping them to invest more than \$3 billion in the state's economy and generating more than \$150 million in tax revenues annually. The businesses, in turn, have created or saved more than 127,000 jobs.



SUNY Center for Sustainable and Renewable Energy – This center at the College of Environmental Science and Forestry is a 64-campus research and development clearinghouse in the critical areas of energy sufficiency and sustainability. The Center has a statewide role as a scientific and academic policy advisor to the

American Bioenergy Association.—the industry's association and policy voice.

The center conducts research and investigation in renewable carbonate fuel cell operations, photovoltaic power generation, solar-fueled hydrogen generation, biomass production and hydrogen extraction and biotechnical hydrogen production from biomass. The center also sponsors and advances specific renewable energy projects and has an interest in wind power in support of potential wind power production operations.

Gen*NY*sis

Generating Employment through New York State Science—was created to maximize the research and development potential of the world-class life sciences research being conducted at New York State public, not-for-profit and private academic research institutions.

Gen*NY*sis is supporting:

- Construction and renovation of 63,000 square feet Advanced Biotechnologies Center at **Binghamton University** and is supporting research in biomedicine and bioinformatics, bioengineering, materials engineering and material science and applied health and environmental technologies.
- Establishment of the Central New York Biotechnology Research Center at **Upstate Medical Center** to become a leading center for plant and animal biotechnology research.
- Research at the Gen*NY*Sis Center for Excellence in Cancer Genomics at the **University at Albany** Foundation. This is a cooperative effort that links private biotech businesses with academia and government to conduct groundbreaking research and development in state-of-the-art facilities.

RESTORE

Rebuilding the Empire State through Opportunities in Regional Economies—is a state program that supports the development of facilities that promote biotechnology and other high technology research and commercialization efforts as crucial to the state's economic development.

RESTORE has invested in University at Albany Nano Sciences and Downstate Medical Center's biotechnology incubator. These two key regional high tech centers are helping to create and retain jobs, attract business investment and enhance the state's competitive edge in national and international business and commerce.



U.S. Senator Hillary Clinton has been a strong supporter of SUNY nursing education.

SENATOR CLINTON ADVOCATES FOR RURAL NURSING CARE

Senator Hillary Rodham Clinton (D-New York) praised Binghamton University's Decker School of Nursing as a leader in nursing education, pointing especially to its doctoral program in rural health, the only one of its kind in the nation. To the faculty, students and leaders of the Greater Binghamton health-care community gathered to meet her, Clinton said the Decker School is "creating the mold for others to follow."

Research has shown that the gap between a predicted need for nurses and the numbers actually employed has been consistently largest in rural areas.

"We may be facing a nursing shortage today, but we are setting ourselves up for a nursing crisis if we don't address this issue now," Clinton said. Earlier this year, she reintroduced a bill to increase the number of nurses in rural areas, integrate patient safety practices into nursing education, and add nursing faculty.

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OUTREACH TO RURAL COMMUNITIES

Cornell's Cooperative Extension program is a collaboration with the State University of New York. Every day, thousands access the Cooperative Extension seeking advice and knowledge on everything from how to prune an apple tree, to cancer awareness, and nutrition.

The mission of the Extension is to "enable people to improve their lives and communities through partnerships that put experience and knowledge to work."

The county-based Cornell Cooperative Extension associations and the New York City office provide 56 portals to Cornell University's state operated campuses of Agriculture and Life Sciences, Industrial and Labor Relations, and School of Veterinary Medicine. Extension educators in these locations form powerful community-university partnerships with the Cornell campus, and involve local constituents to address the issues and concerns of New Yorkers.

SMALL IS THE NEW BIG

Small Times magazine ranked Albany NanoTech number one in the world for nanotechnology and micro-technology in the magazine's Annual College Ranking.

This college, the first in the world dedicated to research, development, education and deployment in the emerging disciplines of nanoscience, nanoengineering, nanobioscience and nanoeconomics, is having a significant impact on the Capital Region and the Hudson Valley. The rapid development and expansion of the Capital Region's nanotechnology sector, spearheaded by the college, is a key driver for the area's economic activity and growth.

The University at Albany's Albany NanoTech complex – a \$4.2 billion, 450,000-square-foot facility that has attracted more than 250 global corporate partners – is the most advanced research complex of its kind at any university in the world.

A significant development this year was the agreement by International SEMATECH, the global consortium of leading nanoelectronics manufacturers, to locate its headquarters in Albany, increase its workforce by 450 jobs over three years and provide \$25 million to fund research at colleges and universities at five centers around the state. The project will support new research at the Nanotech Center in Albany as well as serve as an additional resource supporting existing operations of SEMATECH members in the Hudson Valley and the Capital Region.



(L to R): Alain Kaloyeros, Chief Administrative Officer of the College of Nanoscale Science and Engineering at UAlbany, Speaker of the NYS Assembly Sheldon Silver, and Senate Majority Leader Joseph Bruno, at a CNSE event.

A LEADER IN FORGING PARTNERSHIPS WITH CHINA

At a time when many U.S. universities are just beginning to navigate China's complex political environment and establish new ventures there, the University at Buffalo can look back on a quarter century of successful and historic partnerships.

More than a thousand students and faculty from UB and its partner institutions in China have participated in its varied global programs. Today, UB ranks 11th nationally in international enrollment among U.S. universities.

In 1981 three Beijing universities opened educational exchanges with UB, marking the first such agreements with any U.S. university following the normalization of relations between the U.S. and the Peoples Republic of China in 1979. The UB exchanges – with Beijing University of Technology, Capital Normal University and Capital University of Medical Sciences – opened the door for other U.S. universities to establish educational programs with China over the past 25 years.

"UB had the foresight decades ago to set up relations with higher education entities in China before anyone else in the U.S. did," UB President John B. Simpson said when the university celebrated this significant anniversary. "We have a longstanding history of cooperation and collaboration that has benefited generations of students and faculty from both countries and which will continue to benefit future generations in decades to come."

INSTITUTE FOR GLOBAL STUDIES

A new Institute of Global Studies has been created by SUNY and China's Nanjing University. It is designed to serve as a collaborative platform for the field of global studies and reflects a deepening relationship between the two universities as well as the further expansion of ties between SUNY and high level government, research and educational organizations in the People's Republic of China.

The primary office of the Institute will be located in Nanjing on the site of the new SUNY/Nanjing International College. The U.S. office is housed at the Levin Institute in New York City. The Co-Directors will be Denis Simon, provost and vice president for Academic Affairs at Levin, and Zhang Rong, vice president of Nanjing University.

The core mission is to study the multiple dimensions of globalization and its consequences for economy, society, business, and public policy. The institute intends to raise the awareness and understanding of the forces of globalization across business and academia and will disseminate its findings to an audience of policymakers, business executives, scholars and students in the U.S., China and beyond.

Nanjing is located in Jiangsu province, which is one of China's most rapidly growing and economically successful provinces and the one with the greatest amount of foreign investment in China, some \$120 billion. The Institute is an outgrowth of an emerging relationship between New York state and Jiangsu Province fosters a free and open discussion and exchange of ideas.



Rockefeller Institute Building

The Rockefeller Institute focuses on the role of state governments in the American federal system and is fast becoming the preeminent national center for the study of state government.

ROCKEFELLER INSTITUTE AT THE HEART OF DOMESTIC POLICY STUDY

The Nelson A. Rockefeller Institute of Government in Albany conducts studies and special projects to assist government and enhance the capacity of states and localities to meet critical challenges. Through its conferences, research and publications, the Rockefeller Institute works with the best experts and top officials at all levels of government to forge creative solutions to public problems.

The Rockefeller Institute focuses on the role of state governments in the American federal system and is fast becoming the preeminent national center for the study of state government. The states are now more than ever at the heart of America's domestic policy process, and no other governmental policy research center deals with states on as comprehensive a basis. Its staff works closely with federal and state officials and with the major national organizations that represent state and local government.

The Rockefeller Institute has a special link with the Nelson A. Rockefeller College of Public Affairs and Policy of SUNY's University at Albany. Co-director Richard P. Nathan is a nationally recognized expert in domestic policy, federalism, and inter-governmental relations; co-director Thomas L. Gais is an expert on federalism, implementation of social programs, and campaign finance reform; and Deputy Director Robert Ward heads state and local government Finance research. The Institute draws upon the faculty and students of Rockefeller College as well as the resources of colleges and universities throughout the state in its projects.



SUNY Canton veterinary students.

SUNY CANTON EDUCATES STUDENTS AROUND THE WORLD

Online learning defies time zones, location and other obstacles that may stand between a student and their education. The extraordinary growth of SUNY Canton OnLine has been a transformational force that has caused a significant growth in enrollment, while expanding the college's global reach.

"Our ability to expand beyond the boundaries of the campus was made possible by our online capabilities," said SUNY Canton President Joseph L. Kennedy.

The program was quickly embraced by non-traditional students looking to continue their education, many of whom are already working full-time jobs or raising families. "We've had soldiers serving in Afghanistan and Iraq take online courses," said Molly Mott Director of the Center for Excellence in Teaching and Online Learning.

Using online courses and other distance learning technologies, instructors are teaching classes in Canton to students at Gillette College in Wyoming, The American University in Bosnia and Herzegovina, Kherson State University in Ukraine, Lomonosov Moscow State University in Russia and Yamagata University in Japan.

(L-R) Westchester County Executive Andrew Spano and Dr. Hankin, President of Westchester Community College, celebrate the Gateway Center's groundbreaking.

A GATEWAY TO AMERICA

Responding to the rapid increase in newcomers to the U.S., an increased number of high school graduate, who need higher education for economic success, and an aging population and imminent retirement of much of the current workforce, Westchester Community College (WCC) designed The Gateway Center for new Americans.

The concept is grounded in the findings of a three-year study funded by a grant from the Hitachi Foundation, and conducted in partnership with WCC and the Westchester business community.

In Westchester County, 22 out of every 100 people were born outside the United States, and the number will continue to grow. Programs in language and cultural exchange, infused with rich academic studies, will enable new Americans to advance in meaningful careers and fully join the community. Scholarships will ensure access to education for deserving students.

The planned 70,000 square-foot Center will be a magnet for education, collaboration and cultural exchange.

The campaign to build the center represents a \$40.5 million partnership of public and private funding. Westchester County and the State of New York committed a total of \$26 million toward the building, while WCC is seeking to raise \$14.5 million. To date, more than \$10.6 million has been pledged by corporate, foundation and private donors.

