

Western New York

	Regional totals	% of total in region	Independent Sector state totals
No. of Independent Sector institutions	12		145
Degree Productivity ¹			
Bachelor & graduate degrees, Independent Sector	7,175	40%	127,073
Bachelor's in engineering	58	12%	3,082
Bachelor's in mathematics	36	34%	856
Bachelor's in physical sciences	38	19%	884
Economic Impact ²			
Employees	12,277		360,158
Economic impact (millions)	\$1,314		\$54,296
Payroll (millions)	\$457		\$19,576
Capital construction (millions)	\$50		\$1,637
Student/visitor spending (millions)	\$216		\$3,925
Quality Measures			
2010 National Merit Scholars entering college ³	1		355
Proven Expertise			
National Science Foundation FY2009 ⁴	\$5,399,000		\$3,009,877,000

Sources:

1. New York State Education Department, Office of Research and Information Services. Degrees granted are public and Independent Sector, 2008-09.
2. Center for Governmental Research, January 2011.
3. The National Merit Scholarship, <http://www.nationalmerit.org/nmsp.php#entryreq>
4. National Science Foundation, College and University R&D FY2009, data file.

Independent Sector: Centers of Research, Innovation, and Economic Development Western New York

Institution	Center	Description	Category
Niagara University	Family Business Center	The Center recognizes the importance of family-owned businesses that are particularly abundant in the Buffalo Niagara region. Sponsored by the College of Business Administration in collaboration with five area businesses, the Center develops and exchanges relevant information on often unique issues in an effort to strengthen the stability and long term viability of family and privately owned businesses through education, research and service.	Business Consulting
Alfred University	Center for Advanced Ceramic Technology	Materials science focused with specialized equipment that includes an array of high-temperature analytical equipment to characterize materials during processing.	Centers for Advanced Technology
Alfred University	The Center for Workforce Training at Alfred University	Photonics.	Community and Workforce Development
Canisius College	Entrepreneurs on Campus Program	The Entrepreneurs Program facilitates the active engagement of Canisius students and faculty in local entrepreneurial enterprises. A select group of entrepreneurs will mentor students in learning and in actual business creation work; internships are an integral part of the program. The entrepreneurs will participate in on-campus education opportunities, assisting students and faculty.	Entrepreneurship/ Business Acceleration
Alfred University	Ceramics Corridor Innovation Center Business Incubation Program	The program gives the entrepreneur the opportunity to launch their venture at a prestigious address, while surrounded by successful and experienced professionals and businesses. As a tenant in the Innovation Center, you will enjoy a custom-designed environment of technical and business services to assure success.	Incubator
Niagara University	Academic Center for Integrated Sciences	Research and development in the sciences is one of the many ways that Niagara University seeks to enhance the economic vitality of the region. Since the establishment of the Academic Center for Integrated Sciences in 2006, faculty and students in biology, biochemistry, chemistry and psychology have developed integrated research projects in numerous areas of study. Most notable is Niagara's current collaboration with the Heart Center of Niagara at Niagara Falls Memorial Medical Center on non-invasive diagnostic and treatment protocols for patients with coronary artery disease, the primary cause of mortality in Niagara County. Researchers at Niagara University are optimistic that the information gathered from this project will lead to the development of marketable solutions that will minimize the impact of this disease.	School-based Center
Niagara University	Niagara University Hospitality Training and Research Center	The College of Hospitality and Tourism Management's Hospitality Training & Research Center assists hospitality-based businesses with operating more efficiently and effectively through research, training and consultation projects. Areas of expertise include excellence in customer service, revenue optimization, management training, employee development, working with guests and/or employees with disabilities, and sales and marketing.	School-based Center

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Niagara University	Center for Supply Chain Excellence	Niagara University's Center for Supply Chain Excellence supports supply chain business fields, especially logistics, transportation, and global trade. The work of the Center occurs through a collaborative relationship among business firms, Niagara University and the College of Business Administration. It serves as a regional logistics and supply chain management resource and information entity and provides support through educational programs, workshops, seminars and faculty assistance to business professionals and firms seeking to establish a competitive advantage through effective supply chain management.	School-based Center
Niagara University	Niagara University Technology Transfer and Commercialization Clinic	The technology transfer and commercialization clinic in the College of Business Administration has provided a new opportunity for Niagara University to assist with the economic development of the region. The clinic assists local companies to move new discoveries from the laboratories into the commercial marketplace. Niagara's tech transfer clinic is part of a statewide network of similar entities that provide specialized assistance with the commercialization of new technologies.	Technology Transfer

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Below is just one example of how independent (private, not-for-profit) colleges and universities nurture startup companies, provide valuable expertise to private sector businesses, and harness intellectual property that helps to generate new products and ideas that create economic vitality throughout the State.

Start-Up Companies

Since its inception, the clinic has worked with MMC Lipid BioServices, Inc., a local biotechnology company spun off by a **Niagara University** chemistry faculty member, to research how to commercialize a patent-pending technology that shows promise in improving the delivery of therapeutic drugs in the systems of cancer patients and local manufacturing entities such as Delphi and Unifrax.

Definitions:

Start-Up Companies – A new company created at a college or university.

Start-Up Companies/Licensees – A new company created to commercialize and take to market an innovation(s) arising from college and university R&D.

Research Partnerships – Public-private partnerships between a college or university and a private company.

Licensees – Companies licensing R&D technologies.