Bioinformatics is considered one of the fastest-growing career fields in the state and across the country.

It is projected that nationally 80 percent of future careers will somehow be tied into biomedical sciences.

Bioinformatics is a rapidly growing field that provides research tools to better understand diseases at the molecular level, leading to improved health care and disease management, and facilitating a future era of individualized medicine.

We’re finding new ways to discover our past, solve crimes, restore the environment!

There’s a lot more to life sciences than lab coats and test tubes. Western New York’s growing industry cluster of more than 125 life sciences companies includes both established and fledgling firms, as well as research institutions like Roswell Park Cancer Institute and the Hauptman-Woodward Medical Research Institute. Collectively, these companies and institutions employ more than 10,000 people, and offer job opportunities within these seven Career Pathways:

- Laboratory Sciences
- Engineering
- Information Technology
- Manufacturing
- Quality Control
- Business
- Support

At the beginning of the decade, there were approximately 8,940 medical and clinical laboratory technicians employed throughout New York State. By 2012, there will be approximately 9,680. This represents an increase of 74 jobs each year.

Nationally, employment of clinical laboratory workers is expected to grow to 362,000 by 2016. That is a 14% annual increase, which is faster than average for most occupations.

Source: www.nycareerzone.org

NYS AHEC  http://www.ahec.buffalo.edu

The New York State AHEC System encourages local individuals to pursue careers in health care. To aid with this we have helpful links to a variety of web sites that offer programs for the development of health professionals and to aid students in making a decision to pursue a health career.
What do biomedical informatics companies do?
Biomedical informatics organizations provide products and services that use computers, software and databases to gather, manage, and analyze data for other life sciences and health care companies and institutions. These data can include genetic information, clinical trials or laboratory research information, electronic patient medical records and more.

What types of people do they employ?
Biomedical informatics organizations employ a range of individuals with technical and non-technical backgrounds, including biostatisticians, customer service representatives, computer engineers, administrative assistants, IT support people, accountants, and clinical research associates.

WNY Bioinformatics Companies & Institutions

AHRM Inc.
Buffalo, New York
www.ahrmine.com

Angus Buffers & Biochemicals
Niagara Falls, New York
www.dow.com/angus

Bagler Biodefense
Buffalo, New York
www.baglerbiodefense.com

Buffalo Clinical Research Center, LLC
Buffalo, New York
www.bcrc.us

CH3 Biosystems, LLC
Buffalo, New York
www.ch3biosystems.com

CPL Associates, LLC
Amherst, New York
www.cplassociates.com

Hauptman-Woodward Medical Research Institute
Buffalo, New York
www.hwi.buffalo.edu

Life Technologies Corporation
Grand Island, New York
www.lifetechnologies.com

Rheonix, Inc.
Grand Island, New York
www.rheonix.com

Buffalo, New York

Roswell Park Cancer Institute
Buffalo, New York
www.roswellpark.org

United Biochemicals
Sanborns, New York
www.unitedbiochemicals.com

University at Buffalo
Buffalo, New York
www.buffalo.edu

ZeptoMetrix Corporation
Buffalo, New York
www.zeptometrix.com

University at Buffalo
Buffalo, New York
www.buffalo.edu

ZeptoMetrix Corporation
Buffalo, New York
www.zeptometrix.com

New York State Center of Excellence in Bioinformatics & Life Sciences
Buffalo, NY
www.bioinformatics.buffalo.edu

Local Higher Education Institutions

Alfred State College
Bryant & Stratton Business Institute
Buffalo State College
Canisius College
D’Youville College
Daemen College
Empire State College
Erie Community College
Everest Institute - Rochester
Genesee Community College
Hilbert College
Hobart and William Smith Colleges
Houghton College
ITT Technical Institute
Jamestown Business College
Jamestown Community College
Keuka College
Medaille College
Monroe Community College
Nazareth College
Niagara County Community College
Niagara University
Olean Business Institute
Roberts Wesleyan College
Rochester Institute of Technology
St. Bonaventure University
St. John Fisher College
SUNY at Brockport
SUNY at Fredonia
SUNY at Geneseo
Trockai College
University at Buffalo
University of Rochester
Villa Maria College
Nanomaterials, photonics, medical imaging, and quantitative analytics are some of the core technologies that are driving the growth of the life sciences industry in the Greater Rochester, NY Region. They have been integrated into products such as diagnostic instruments, noninvasive medical imaging systems, and prescription contact lenses for local companies such as Carestream Health, CooperVision, and Ortho-Clinical Diagnostics.

With numerous life sciences companies and extensive research and development resources such as the University of Rochester Medical Center and the University of Rochester Clinical and Translational Sciences Institute, discoveries can be readily advanced from the lab into new treatments and cures.
Genomic & Bioinformatics Career Resources & Links

The National Institute of Health Genomic Careers Resource:
http://www.genome.gov/genomicCareers

The National Human Genome Research Institute (NHGRI) has developed this interactive tool to help students explore the possibilities of finding a fulfilling and rewarding career in a Genetics or Genomic-related field. It is also designed as a resource for counsellors and teachers. Through the use of interactive video, this unique tool allows students to listen to professionals explain what they do and what they find inspiring about their work. With many of the interviews, students can choose which question they would like to ask and they take a tour of some of the most cutting-edge facilities in the United States. The interviews and tours are conducted in a fun, light-hearted and engaging manner.

iSciWNY Careers in Life Sciences
http://isciwny.com

iSciWNY is your gateway to the life sciences industry in Western New York. Through this program, you’ll learn about: career pathways, types of life sciences companies, available education and training, and more!

The Hauptman-Woodward Institute's High School Apprenticeship Program
http://www.hwi.buffalo.edu/outreach/high_school_program.html

The Hauptman-Woodward Institute's high school apprenticeship program is a unique learning experience that affords area high school students the opportunity to study evolution and bioinformatics in the laboratory of H. A. Hauptman Distinguished Scientist, Dr. William L. Duax. If you are a Buffalo-area high school student, and you would like to join the team working on this exciting project, download an application or contact Dr. Duax for more information at duax@hwi.buffalo.edu

New York State Center of Excellence in Bioinformatics & Life Sciences
http://www.bioinformatics.buffalo.edu

The mission of the University at Buffalo’s New York State Center of Excellence in Bioinformatics and Life Sciences is to foster economic development by connecting university resources with life sciences and high-tech industry through funding, research and development support, programming, and education, with the goal of helping companies find business solutions, accelerate new ideas, and grow. This technology-based economic development mission is complemented by the COE's efforts to support the advancement of new discoveries in science that seek better ways of preventing and managing disease and improving lives.

Bioinformatics at Rochester Institute of Technology (RIT)
http://www.rit.edu/cos/bioinformatics/index.html

Graduates of the RIT Bioinformatics programs have entered such laboratories, both in industry and academia, as bioinformaticists. Some have also gone on to leverage their biotechnology experiences as wet lab experimentalists themselves. RIT offers a combined BS/MS program which can be completed in a total of five years. For those who wish more laboratory experience, they also offer a Molecular Genetics Option with less computer science and more molecular genetics experience.