Science and other trade publications have identified computational biology as a job-growth field, as these industries seek to make use of vast amounts of genomic data and produce more complex models of biological processes.

The Master of Science in Bioinformatics offers students comprehensive, multidisciplinary education in bioinformatics and computational biology, including topics such as systems biology, genomics, proteomics, and statistical genetics. Bioinformatics’ multidisciplinary nature attracts students with backgrounds in biomedical research, life science, information technology, engineering, and statistical modeling.

Learn from our experienced faculty, research problems that define the search for new drugs, and exploit cutting-edge information technology to analyze complex data sets.

GRADUATES ARE PREPARED TO:
- Apply a variety of skills to the processing, storage, analysis and modeling of many types of biological data.
- Provide valuable insights into the understanding of complex biological systems and their quantitative data.
- Positively impact research projects in the corporate and academic sectors.
- Effectively communicate and present bioinformatic analysis to multidisciplinary project teams.
**BIOINFORMATICS STUDENTS**

- The median age for the program’s students is 42.
- The program population is 66% male and 34% female.
- Number of states our students represent: 10.
- Most represented states: Massachusetts, California and Florida.
- 70 students have graduated from this program since it launched in 2002.
- 38 students are currently working towards this degree.

**OUR STUDENTS WORK OR HAVE WORKED AT PRESTIGIOUS ORGANIZATIONS SUCH AS:**

- Amgen
- Blue Cross Blue Shield
- Interactive Data Corporation
- Mass General Hospital
- Novartis
- The MITRE Corporation
- U.S Laboratories
- Vertex Pharmaceuticals
- Xtal Biostructures

**REQUIRED COURSES**

- Structural Bioinformatics
- Biological Sequence Analysis
- Molecular Modeling and Cheminformatics
- R for Biomedical Informatics
- Biological Data Mining and Modeling
- Statistical Genetics

**CATEGORY A ELECTIVES (SELECT AT LEAST 3)**

- Genomics and Genetics
- Drug Discovery and Development
- Computational Systems Biology
- Biological Database Systems
- Whole-genome Gene Expression Analysis
- Research Topics in Computational Biology
- Molecular Biology Lab: from DNA to Protein

**SAMPLE CATEGORY B ELECTIVES (SELECT UP TO 3)**

- Organizational Leadership and Decision Making
- Software Development Methodologies
- Perspectives on Health/Medical Information Systems
- Web Development Technologies
- Database Management

Connect with an Enrollment Advisor today to discuss your interest or make a plan to apply. **Call us toll free: 800-618-4681 or apply online.**