



Department of Bioinformatics Bhavnagar University

M.Sc. Bioinformatics Program



Master of Science in Bioinformatics:

Bhavnagar University offers a Master of Science in Bioinformatics, an interdisciplinary degree administered by the Department of Bioinformatics. The Department was established in 2004 under UGC Xth plan. The program aims at producing postgraduates who are ready to serve as research, managerial, or technical professionals in various areas of bioinformatics.

Number of seats: 20

What is Bioinformatics?

Bioinformatics is a new and exciting field that stands at the intersection of biology, computer science and information technology. Bioinformatics has applications in front line areas of biotechnology like drug design, gene therapy, diagnostics, crop improvement, biochemical processes etc. Bioinformatics focuses on the management and interpretation of biological information. It is the study whereby data acquired from complex biological phenomena are analyzed and modeled using sophisticated

numerical methodologies. The availability of genomic sequence information from viruses to humans has created urgent needs for professionals who are able to decipher these sequences and give them meanings. The complexity of such an enormous amount of biological data requires efficient tools for their analysis and interpretation. Bioinformatics is the development and application of such tools based on mathematical models, statistical methods, and computational algorithms by well-trained professionals with broad scientific backgrounds.

Curriculum:

The interdisciplinary curriculum is designed for students with diverse backgrounds to acquire knowledge and skills in a cooperative learning environment. The curriculum is designed for completion in two years (i.e., four semesters) and requires a project in an academic or industry location.

Career Opportunities:

Bioinformatics professionals now play a critical role in a wide variety of biomedical research and

biotechnology industries. Some of our recent postgraduates have joined the workforce in the biotechnology and software industries, while others have obtained academic as well as research positions in prestigious organizations. Employers of our recent graduates include Indian Institute of Advanced Research (IIAR), Gandhinagar; Bhavnagar University, Gujarat University and some private firms. Some of our students are pursuing research and development activities overseas, as well.

Eligibility:

Bachelor's degree in Science (Bioinformatics, Biochemistry, Biotechnology, Biology, Microbiology, Botany, Zoology, Physics, Chemistry, Mathematics, statistics), Medical Science, Engineering, Agriculture, Computer Science, and Computer Application, with at least 48%.

Contact:

Department of Bioinformatics,
Bhavnagar University,
Gaurishanker lake road,
Bhavnagar-364002, Gujarat
Ph: +91-278-2522361
E-mail: bioinfo@bhavuni.edu
Website: <http://www.bhavuni.edu>

