

BIOINFORMATICS



INTRODUCTION

Bioinformatics or computational biology is the use of information technology in the field of molecular biology, or the application of computer technology to the management and analysis of biological data.

A key aspect of bioinformatics is the creation of data algorithms and specialized computer software to identify and classify components of a biological system, such as DNA and protein sequences. They consult with other scientists and researchers to analyze data sets

SKILL SET

- Commitment and Self-confidence
- Hard work and alertness of mind
- Good communication skills
- Research and analytical skills
- Computational skills.
- Academic Oriented

ELIGIBILITY:

The basic educational qualification to enter a program in Bioinformatics is 10+2 completed with physics, chemistry, mathematic / biology as the subject.

COURSES & EDUCATIONAL QUALIFICATIONS

- **B.Tech/B.Sc. Bioinformatics**
 - 10+2 with physics, chemistry, mathematic / biology
- **Master's Degree in Bioinformatics**
 - Graduation in any of the following subjects such as B.Sc. / B.Sc. (Agriculture)/ BCS / BE / B.Tech / MBBS / B Pharm. / BAMS / BHMS / B.Voc.

JOB PROSPECTS

- Professor
- **Science technician** is a profession involving working as a member of support staff in any science disciplines. ... **Technicians** typically work with complex instruments and equipment, and require specialized training, as well as considerable practical experience, in order to do their job effectively”.
- Research Assistant
- **Bioinformatics scientist** is someone who applies information technology and computer science into the area of biology. This is done for the purpose of studying, analyzing, and processing genomic information as well as other forms of biological information
- **Bioinformatics analysts** study information received from the Human Genome Project, a research project that determines the pairs that create DNA, in an effort to develop cures for human diseases. They are skilled in the use of complex algorithms, computer databases and software
- Junior Research Fellow
- Research Associate
- Bioinformatics Software Developer

TOP COLLEGES

- **Amity Institute of Biotechnology, Noida**
Course: B.Tech in Bioinformatics
Eligibility: Min. 60% in class X & XII with min. 60% in PCM/PCB for Non-sponsored & 55% for Sponsored category through a regular mode of a recognized board only.
Selection Process: Subject based Written Test
- **D Y Patil University, Mumbai**
Course: B.Tech in Bioinformatics
Eligibility: English compulsory in 10+2, PCM/B
Selection Process: AIET Test



- **VIT University Vellore, Tamil Nadu**
Course: B.Tech in Bioinformatics
Eligibility: 10+2 PCB/M with 50%
Selection Process: VITEEE

- **SRM University, Chennai**
Course: B.Tech in Bioinformatics
Eligibility: 10+2 PCB/M with 50%
Selection Process: SRMJEEE

- **Guru Nanak Girls College, Ludhiana**
Course: B.Sc. in Bioinformatics (Hons)
Eligibility: 10+2 in PCB&M with 50% marks
Selection Process: Merit Based

- **DAV College, Chandigarh**
Course: B.Sc. in Bioinformatics
Eligibility: 10+2 with science
Selection Process: Merit basis

- **GGDSD (Goswami Ganesh Dutta Sanatan Dharam College), Chandigarh**
Course: B.Sc. in Bioinformatics
Eligibility: 10+2 science
Selection Process: Merit basis (Best of three science subjects)

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