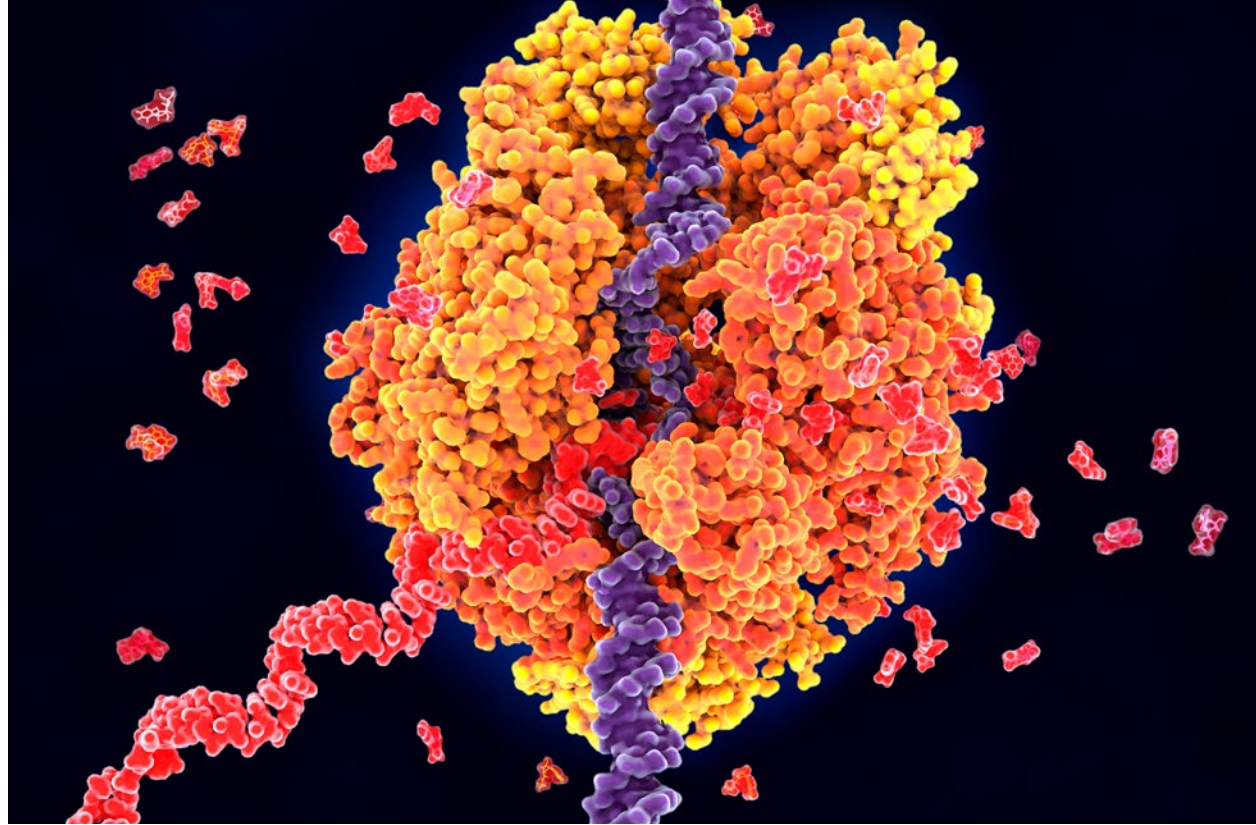


Master's programme Bioinformatics

Do you see the power of data-driven progress combining computer science and molecular biology? The master's Bioinformatics is a developing scientific discipline that combines computer science, modelling, statistics and molecular biology. It was developed to cope with and help us understand the ever-increasing amount of data available about DNA, RNA and derived proteins, and their link with observed phenotypes.

This programme will teach you how to store, retrieve, and analyse data to model biological systems. You will discover and magnify the importance of biological data in our everyday lives.



What makes this master's unique?

- **Bioinformaticians apply computer science to synthesise large amounts of biological data**
- **Systems Biologists apply mathematics and statistics to create predictive models to understand how biological systems function.**
- **Combines computer science, modelling, statistics and molecular biology**



Want to get to know the university?

Chat with our students, visit one of the (online) open days or join one of our students for a day. Look for all activities at www.wur.eu/meetus

Study programme in numbers



START
September



NUMBER OF STUDENTS
43 students/year



LANGUAGE
English



STUDY LOAD
22 contact hours,
20 self-study hours/week



APPLICATION DEADLINE
non-EU/non-EFTA students:
15 April
Dutch/EU/EFTA students:
15 June



ADMISSION REQUIREMENTS
www.wur.eu/apply

Tracks

The programme provides students with the skills necessary to manipulate large biological datasets, the ability to analyse and model these data, and to develop new bioinformatics tools.

Depending on the student's skills and interest advanced courses in 3D protein modelling, genome annotation, data science, mathematical modelling, or software design can be taken. Students with BSc in Computer Science follow courses in molecular biology and students with BSc in Life Science courses on programming and computer science.

There are two tracks you can choose to specialise in:

- Bioinformatics
- Systems biology



“Before a model can be made, firstly, the biological system or network needs to be understood to the smallest detail. So systems biology is not only about programming, but it is more about interpreting data and answering biological questions often by using models.”

Alumnus Niels



Related programmes

MSc Biology - MSc Biotechnology - MSc Molecular Life Sciences - MSc Plant Biotechnology

THE UNIVERSITY IN NUMBERS



6,936

Master's students



108

Nationalities



66%

Dutch



34%

International



43%

Male



57%

Female

Studying in Wageningen

Be part of our international community of students who want to change the world. Together we can find solutions for problems like health and food security, water scarcity, climate change and other environmental and global issues. You are ensured personal guidance throughout your student career. Studying in Wageningen guarantees premium quality education and an international quality benchmark on your curriculum vitae.

www.wur.eu/whywageningen



Structure of the study programme

- 1st** YEAR (60 credits)
- Compulsory courses
 - Specialisation courses to prepare you for your major thesis
 - Optional courses that fit your interest

- 2nd** YEAR
- Thesis (36 credits)
 - Internship or research practice (24 credits)

Your future career

Graduates are already in high demand both in industry and in academic research including medical sciences. As the demand has outpaced the supply of bioinformaticians the first job after graduation is often a PhD project at a research institute or at a university in or outside the Netherlands. Other positions of alumni include software developer, data scientist, programmer and bioinformatician.

More information

Visit wur.eu/mbf
or mail to mbt.msc@wur.nl

