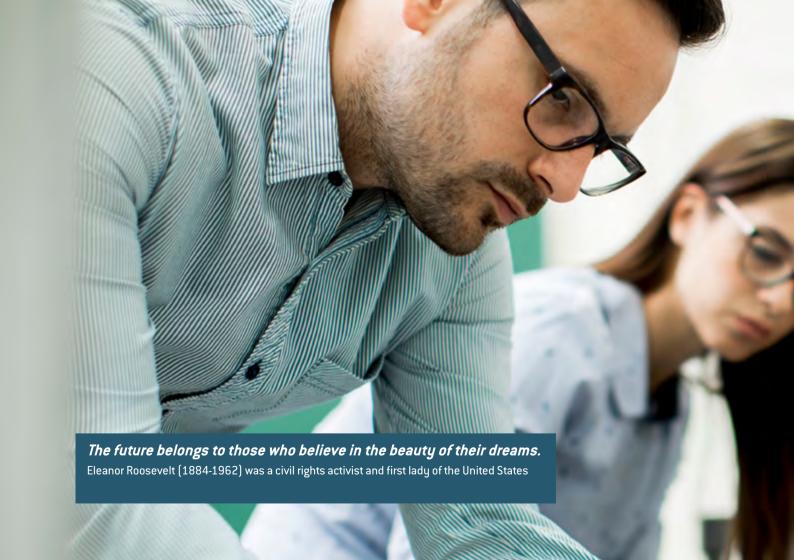








Master's Degree in Bioengineering for Personalized Medicine - B4PM



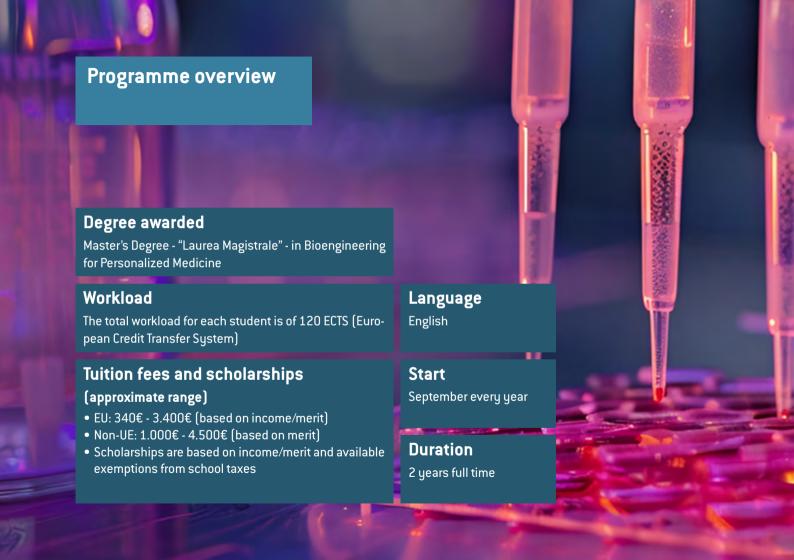
Master's Degree in Bioengineering for Personalized Medicine - B4PM

The Master's Degree in Bioengineering for Personalized Medicine (B4PM) is jointly offered by three Italian universities:

The Master's Degree in Bioengineering for Personalized Medicine [B4PM] is jointly offered by three Italian universities: the University of Trento, the University of Verona and the University of Modena-Reggio Emilia. The B4PM Master's degree aims to train engineers with deep knowledge and strong competence in the design, development, characterization, quality control and management of medical devices, systems, and services for the promotion of personalized and precision medicine, with a strong focus on sustainability principles. The courses offer multidisciplinary training, which integrates the topics of biomedical, industrial and information engineering with those of medicine and biology.

The academic organization of the degree is designed taking into consideration the interconnected trends of technology and medicine and provides advanced education aiming to convert technological development into added value for patients, professionals and society.

Graduates in Bioengineering for Personalized Medicine are unique professionals, trained to play a key role in the process of innovation of methods and products for medicine. Furthermore, graduates possess skills and competences highly sought after by production and service companies and by public or private healthcare systems.



Admission

Application deadlines (check online for updates)

- February for non-EU citizens living outside Italy
- From June to November for EU citizens and non-EU citizen regularly resident in Italy

Selection criteria

- Coherence between the candidate's previous studies and the educational aims of the Master's degree courses
- Academic curriculum of the candidate

Requirements

- Bachelor's degree in Industrial or Information Engineering or equivalent qualification, with an average mark equal to or higher than 23/30.
- English language knowledge B2 level (according to the Common European Framework of Reference for Languages - CEFR)

How to apply

- Access and fill in the online application form
- Upload the requested documents
- Submit the online application by the deadline
- Check online for further information and updates: www.unitn.it/b4pm

Study plan

The first year of the Master's Degree is devoted to consolidating basic engineering knowledge in the fields of mechanical engineering, materials science, information technology and electronic engineering. This knowledge is integrated with additional competences in the fields of medicine, biology and biomedical engineering, as well as with elements of product innovation.

During the **second year**, students choose one of the following **two specialization curricula**:

- Digital Healthcare:
 - focuses on the themes of telemedicine, robotics, data management and analysis, artificial intelligence and systems and processes modelling, which constitute the technology set necessary for the development of 4.0 healthcare and its evolution into a patient-centred paradigm.
- Emerging and Sustainable Medical Technologies:
 focuses on the topics of smart biomaterials, tissue engineering, bio-fabrication
 and advanced prosthetics as key elements for the development of innovative
 technologies for personalized and precision medicine with attention to current
 needs of sustainability.

























CONTACT DETAILS

International Mobility Office

Science and Technology Area
Via Sommarive, 5 - 38123 Povo (Trento), Italy
tel.+39 0461 283236 - 3976
master-st@unitn.it

www.unitn.it/b4pm

COURSE VENUE

Polo Tecnologico Via Fortunato Zeni, 8 - 38068 Rovereto (Trento), Italy