Utrecht University

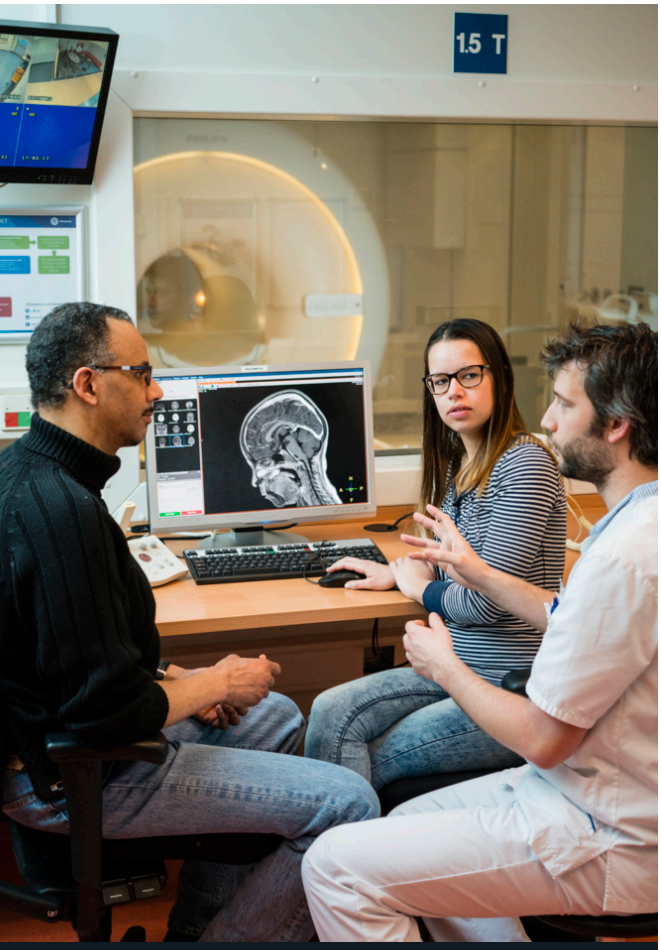
Sharing science, *shaping tomorrow*

TU/e Technische Universiteit Eindhoven University of Technology

UMC Utrecht

Master's programme

Medical Imaging



- **Covers medical imaging from acquisition physics to processing and analysis**
- **Uniquely positioned in hospital setting**
- **Strong international reputation**
- **Excellent connection with medical imaging industry**
- **Medical applications of AI**

IS THIS PROGRAMME FOR YOU?

Are you a student with a clear interest in health care technology, a 'beta' or 'STEM' mindset, a curiosity towards the natural sciences and medical imaging, and ambition in research? Do you have a background in natural or physical sciences, e.g. physics, mathematics, computer science or more applied technical sciences like biomedical engineering? This programme might just be a perfect fit.

The field of medical imaging is evolving rapidly since diagnosis and treatment are increasingly supported by imaging procedures. The Medical Imaging Master's programme combines elements from physics, mathematics, computer science, biomedical engineering, biology, and clinical medicine. Our students will attain a high level of knowledge and skills in various areas of medical imaging, such as image acquisition physics, quantitative image analysis including artificial intelligence/deep learning, computer-aided diagnosis, and image-guided interventions.

Previous experience with medical imaging is not necessary nor required, the programme will teach you the knowledge and skills required in the fields of imaging physics and image analysis for a career in the fascinating world of medical imaging research and technology development.

MEDICAL IMAGING IN UTRECHT

Utrecht University offers you, in close collaboration with Eindhoven University of Technology, a Master's programme uniquely positioned in a hospital environment. Our programme is hosted by the Center for Image Sciences of the Imaging Division of the UMC Utrecht, allowing you to not only learn about state-of-the-art medical imaging platforms and techniques, but also to actually work with MRI scanners, CT, PET-CT, SPEC-CT and 3D-ultrasound platforms.

PROGRAMME OUTLINE

Duration: 2 years full time, **ECTS credits:** 120
Language: English
Start: September
Application deadline EU/EEA students: 1 June
Application deadline Non-EU/EEA students: 1 April
Degree: Master of Science
This Master's programme is registered under the name Biomedical Sciences (code 66990) and is organised by the Graduate School of Life Sciences, Utrecht University.

CAREER PROSPECTS

This programme prepares you for a career in research, either at our own PhD programme Medical Imaging or at other institutes in the Netherlands or abroad. After obtaining a PhD degree, you can choose to continue in academia or switch to industry. Depending on your personal interests and skills, possible career opportunities are:

- PhD candidate
- Scientist in the medical devices industry or biomedical imaging industry
- R&D professional in medical industry
- Consultant in industry or governmental organisations

ADMISSION

A Dutch or equivalent foreign Bachelor of Science in (applied) physics, (applied) mathematics, computer science, biomedical engineering, electrical engineering or similar degree, together with a 'beta' or 'STEM'-mindset, a strong interest in medical imaging and an ambition in research is required to enter this programme.
In addition, proficiency in English is a prerequisite for admission to the programme.
For up-to-date information, please visit the website:
https://www.uu.nl/en/masters/medical-imaging

"The master is located inside a highly specialized hospital, and through the close cooperation with clinicians we can investigate how technology could provide added value to their workflow."

"After my bachelor's program Nanobiology at TU Delft I was looking to apply my theoretical technical skills into something challenging and at the same time useful for society. Looking back, I am very happy with the choice I made to continue my studies with this Master's. I will point out the main reasons for this."

Djennifer Madzia-Madzou, alumna
Lees de volledige testimonial op onze website.

Programme scheme

51 EC	Major Research Project
20 EC	Minor Research Project
25 EC	Mandatory theoretical courses
15 EC	Elective component
7.5 EC	Writing assignment
1.5 EC	Life Sciences Academy

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https://www.uu.nl/en/masters/mi