

ACADEMIC YEAR 2024 - 2025

# MASTER'S PROGRAMMES



**35**  
MASTER'S PROGRAMMES



**4,883**  
MASTER'S STUDENTS



**1.5KM<sup>2</sup>**  
LARGEST ALL-IN CAMPUS



**11,997**  
STUDENTS IN TOTAL



**3,282**  
INTERNATIONAL STUDENTS

UNIVERSITY OF TWENTE.





# ABOUT UT

Based in Enschede in the East of the Netherlands, the University of Twente (UT) is leading in new technology to drive change, progress, and innovation in society. With three powerful research institutes and around 400 labs, our ambitious students, scientists and educators have access to a first-class research and learning environment.

## QUICK FACTS


**1<sup>ST</sup>**

UNIVERSITY WITH THE MOST SOCIETAL IMPACT IN THE NETHERLANDS


**1<sup>ST</sup>**

MOST ENTREPRENEURIAL UNIVERSITY IN THE NETHERLANDS


**251-300**

TIMES HIGHER EDUCATION RANKINGS (THE)


**1<sup>ST</sup>**

IMPACT RANKING (THE) ON INDUSTRY, INNOVATION AND INFRASTRUCTURE


**210**

QS WORLD UNIVERSITY RANKINGS


**378**

LAB FACILITIES


**3,000**

STUDENT APARTMENTS ON CAMPUS



# 4 REASONS TO STUDY AT THE UNIVERSITY OF TWENTE

Are you looking for a master's at a top-class university in Europe that aims for societal impact through high-quality education, research, and entrepreneurship? The University of Twente offers a wide range of highly rated, innovative master's programmes. Studying with us will give you excellent international experience and an outstanding kickstart for your future career.

## 1. A TECHNICAL UNIVERSITY THAT PUTS PEOPLE AND PLANET FIRST

Do you want to contribute to a healthier, smarter, and more sustainable world? Then you are a perfect fit to be part of our ambitious community. All of our education and research is aimed at coming up with solutions for today's challenges. Whether it's about improving food security in Africa, devising a smart app that can support patients with diabetes, or realising the transition to electric vehicles. With a UT master's degree, you can make a difference!

a specialist in your own field, you will also learn to look beyond the boundaries of your own discipline. So don't be surprised to see that you can follow courses of other master's programmes, or collaborate in a project with students from a different background!



SCAN THE QR TO LEARN MORE ABOUT YOUR FUTURE UNIVERSITY

[ut.onl/aboutut](https://ut.onl/aboutut)



## 2. BENEFIT FROM A PERSONAL APPROACH

Got a question for your teachers outside lecture time? Just knock on their office doors! Our university is small-scale, meaning the lecturer knows your name and helps you personally. As a result, you do not only benefit from personalised teaching, you also quickly feel safe and at home.

## 3. THE MOST ENTREPRENEURIAL UNIVERSITY

At UT, you can turn your business idea into reality. Since its founding in 1961, UT has become an international platform for talent, attracting students who all share a curious, entrepreneurial spirit. With over 1,000 start-ups to our name, UT is recognised as the most entrepreneurial university in the Netherlands. We are keen to put your scientific knowledge to practical use in solutions that people and society need. Your innovative ideas, creativity and the courage to step out will be rewarded.

## 4. GAINING EXPERTISE WHILE BROADENING YOUR HORIZON

We know that problems cannot be solved with one discipline. That is why we highly value interdisciplinary collaboration. At UT, you will not only be able to gain in-depth expertise and become



Technical Medicine students at work in an operating room in the TechMed Centre

## FIELDS OF STUDY

Business Studies & Public Policy  
Education & Educational Sciences  
Engineering & Technology  
Geo-Information Science & Earth Observation  
Health Sciences  
Information Technology  
Natural Sciences  
Social Sciences



# TUITION FEES

The tuition fee you have to pay depends on two factors: your nationality and the master’s you have chosen. Below are the tuition fees for the whole academic year if you start in September.

## TUITION FEES 2024-2025 FOR REGULAR MASTER’S

- €

2,530

STATUTORY FEE
- €

17,000

INSTITUTIONAL FEE (BETA PROGRAMMES)
- €

14,250

INSTITUTIONAL FEE (ALPHA/GAMMA PROGRAMMES)

If you are a national of an EU/EEA country, you will probably have to pay the so-called ‘statutory tuition fee’. This fee is determined and subsidised by the Dutch government. Dutch universities do not receive government funding for non-EU/EEA students. This is why we set different rates for students from outside the EU/EEA.

Please note that some of our master’s have different fee structures and application fees may apply.

To view the latest information regarding tuition fees and to find out whether a master’s is a beta or alpha/gamma programme, scan the QR code on the right.

## FINDING A SCHOLARSHIP

The University of Twente offers scholarship possibilities for excellent students enrolling in UT master’s programmes. Scan the QR code on the right to find out which scholarships are available.

# CHECKLIST

## REQUIRED DOCUMENTS

- ✓ Degree(s) certificate(s)
- ✓ Transcript of records of your degree(s)
- ✓ CGPA and grading scale of your degree(s)
- ✓ English language tests
- ✓ Course descriptions
- ✓ Thesis abstract
- ✓ Motivation and/or reference letter
- ✓ Passport
- ✓ CV and/or portfolio
- ✓ Financial statement

These documents are example files required by UT if you want to enter the admission process within the Osiris application. Exactly which documents are needed depends on your previous education and the master’s you want to study. Without the necessary documents, the application cannot be processed.

## COST OF LIVING

€

11,432

TOTAL ANNUAL COSTS

Before coming to study at UT, you must also consider the cost of living in the Netherlands. Count on a total cost of living of around €12,000 per year (excluding tuition fees). EU/EEA students may spend less as they do not need visas and extra insurance costs.

# DEADLINES & ADMISSION

## REQUIREMENTS FOR INTERNATIONAL STUDENTS

		START SEPTEMBER 2024	START FEBRUARY 2025
Visa students	1. Submit a complete application (online via Studielink & Osiris) before:	1 May	1 October
	2. Accepting offer of admission before:	1 June	1 November
	3. Submit the final certified photocopies deadline:	1 September	1 February
Non-visa students	1. Submit a complete application (online via Studielink & Osiris) before:	1 July	1 December
	2. Submit offer of admission before:	1 August	1 January
	3. Submit the final certified photocopies deadline:	1 September	1 February

The application deadline is based on nationality. Your current nationality is leading, even if you have a Dutch or European residence permit. For example: if you have a Mexican nationality and hold a Dutch residence permit, your nationality is Mexican (not Dutch).

### THESE ARE THE GENERAL ADMISSION REQUIREMENTS:

1. A relevant bachelor’s degree (or equivalent qualification) from a university or other accredited academic institution
2. Sufficient command of English  
To prove your proficiency in English, you need to hand over IELTS, TOEFL iBT or Cambridge test results (no other tests will accepted). For these tests, you need to score a minimum overall score as well as a minimum score on each section of the tests.

	IELTS	TOEFL	CAMBRIDGE
Overall minimum score:	6.5	90	176
Minimum score on each section:	6.0	21	169

3. Additional requirements (certificates no older than 2.5 years):
- a. GMAT certificate, score 600 (only for Business Administration applicants)
- b. GRE or GMAT certificate (only for Industrial Engineering & Management applicants)

Additional, programme-specific requirements can be found on the website of the master’s of your interest. You can also do an eligibility check there. You can start your application before completing your bachelor’s. You may be granted conditional acceptance based on your transcripts, curriculum details, relevant research, and expected graduation date. But before you can start your master’s, we require proof that you have obtained your bachelor’s degree.

### NEED TO FOLLOW A PRE-MASTER’S FIRST?

If you are not directly eligible for the master’s, but your previous education is sufficiently related, you might be admitted under the condition that you complete a pre-master’s first. A pre-master’s is a bridging programme that prepares you for your future master’s, helping you to improve certain skills or enhance the knowledge that is needed.

SCAN THE QR TO FIND OUT MORE ABOUT SCHOLARSHIPS, TUITION FEES, AND ADMISSION REQUIREMENTS

ut.nl/application



## HOW TO APPLY?

Your application starts by applying for the programme of your choice on the Studielink website. Before applying, you can fill in the eligibility check on our website (mandatory for international students). Keep the application deadline in mind! If you are an international student intending to apply for a scholarship programme, we advise you to start your scholarship application as soon as possible.



# UNIVERSITY CAMPUS

One of University of Twente's crown jewels is undoubtedly our campus. A green and lively environment that covers 146 hectares – approximately 200 football fields. Here, you can find everything you need to learn, work and live.

## QUICK FACTS

 **378**  
LAB FACILITIES

 **3,000**  
STUDENT APARTMENTS

 **144**  
ASSOCIATIONS



TAKE A  
VIRTUAL TOUR,  
DOWNLOAD OUR  
CAMPUS APP

## 1 LIVING

The University of Twente is the only all-in campus in the Netherlands. It is like living in a small village with 3,000 student houses and apartments. There are plenty of facilities, such as a grocery store, a bar, a gym, a laundromat, healthcare facilities, and even a hairdresser. And the best part: the city centre of Enschede is only a 10-minute bike ride away!

Curious how to find housing, on- or off-campus? Check for more information: [ut.onl/housing](https://ut.onl/housing)

**SUPERMARKET COOP**  
**VESTINGBAR**  
**STARBUCKS**

## 2 SPORTS

On our campus, you can play almost any sport imaginable, from bouldering, soccer, water polo, table tennis, hockey, basketball, survival run, (beach) volleyball to even quidditch. There are up to 46 sports associations

you could join, and you can make use of world-class sports facilities, like a fitness centre, a running track, tennis courts, multisports fields, and an indoor and outdoor swimming pool, to name some options.

**UTRACK**  
**CLIMBING WALL**  
**BOOTCAMP TRACK**

## 3 RESEARCH

If you study at UT, you study at a world-renowned top research university, with access to cutting-edge research facilities. Our campus is home to state-of-the-art research institutes and up to 378 lab facilities in the field of nano- and biomedical technology, IT, technical medicine, governance and behavioural sciences, engineering and geo-information science and earth observation.

**NANOLAB**  
**HIGH PRESSURE LAB**  
**SUPERSONIC WIND TUNNEL**

## 4 EDUCATION

Your lectures will take place in different educational buildings. Conveniently, these are all located on campus in close proximity to each other, so you never have to go far to get to your next lecture! Are you looking for a quiet place to study, or to work on your project? Many buildings offer study spaces as well as project rooms that you can book. Or study for your exams in Vrijhof, the University Library.

**DESIGNLAB**  
**TECHMED CENTRE**  
**UNIVERSITY LIBRARY**



SCAN THE QR TO EXPLORE  
THE CAMPUS

[ut.onl/campusoverview](https://ut.onl/campusoverview)







## QUICK FACTS

 **1,000+**  
UNIVERSITY START-UPS

 **59,000+**  
ALUMNI WORKING WORLDWIDE

 **NR 1**  
MOST ENTREPRENEURIAL UNIVERSITY  
IN THE NETHERLANDS

 **173**  
COUNTRIES WHERE ALUMNI WORK

## CURIOUS TO SEE WHERE OUR ALUMNI WORK?

When you complete your studies at UT, you will be in splendid company. UT graduates possess a wealth of theoretical knowledge alongside strong practical know-how. Perfect for a 21st-century professional! Curious to see how far former students have gone?

Scan the QR code on the right page to access the alumni tool at LinkedIn and see where graduates of the University of Twente work.

## YOUR FUTURE CAREER

Obtaining a master's degree at the University of Twente is a great way to kickstart your career. Thanks to our challenge-based learning approach, you will be perfectly prepared for the real-life challenges you might come across in your future job. Have you already thought about what you will do after graduation? Here are three options for your future career.

### 1. BECOME A PROFESSIONAL

Going straight for a professional job after your master's can be a great option. Graduates of the University of Twente have gone on to secure jobs at major companies and organisations around the world. Looking locally? Twente is an entrepreneurial region rich in knowledge and tech. Discover its top companies and find the perfect job by subscribing to the career portal at [twente.com](https://www.utwente.com). Or visit the annual Business Days Twente and find a match with representatives of about 125 companies.

#### BUILD YOUR NETWORK IN KENNISPARK TWENTE

The University of Twente is located at Kennispark Twente, a prime location for entrepreneurial talent and innovation. It is one of the top 3 largest science parks in the Netherlands with more than 400 (high-tech) companies and over 10,000 people working there. Entrepreneurs, government, and research institutes join forces here to create global impact, making it a breeding ground for innovative startups. An inspiring environment to study, and, who knows, kickstart your career!

### 2. START UP YOUR OWN BUSINESS

Do you have a great business idea? At UT, you can turn it into reality; we highly encourage entrepreneurship! In fact, UT has been voted the most entrepreneurial university in the Netherlands four times in a row. We have a unique approach of putting scientific knowledge to practical use and turning our expertise and yours into solutions that people and society actually need.

As the most entrepreneurial university in the Netherlands, we have gained a good reputation for facilitating startups. This has resulted in more than 1,000 start-ups, such as Booking.com, Scisports, Fokker Aerostructures, Robird/Clear Flight Solutions, Demcon, Ramani, Lionix International, Hy2care, and Athom. Check out Incubase, a student incubator founded by the

Student Union, Novel-T and the University of Twente, that will support you in building your own start-up.

### 3. CONTINUE YOUR ACADEMIC CAREER

Instead of pursuing a professional career right away after obtaining your master's degree, you can also opt for a more academically oriented career, by pursuing a PhD or EngD. An EngD programme is more practically oriented, aligned with the direct problem-solving or design needs of the industry, whereas a PhD programme is more focused on research. You can follow both types of programmes at the Twente Graduate School (TGS).

#### OBTAIN A PHD

A PhD (Doctor of Philosophy) involves spending four years of in-depth studying and researching in a particular area. You can do this within one of our research groups or in one of our structured PhD programmes. An integral part of a PhD is writing your PhD thesis at the end and then presenting and defending your research in public. Obtaining your PhD earns you the title of Doctor (Dr).

#### FOLLOW AN ENGD PROGRAMME

If you have followed an engineering-focused master's, you can also opt to follow an EngD programme after graduation. Such a programme usually takes two years and is aimed at you becoming a high-level technological designer. Upon successful completion, you will receive a certified diploma and the academic degree Engineering Doctorate (EngD).



**SCAN THE QR TO FIND OUT MORE ABOUT YOUR JOB OPTIONS OR CAREER PATHS OF UT GRADUATES**

[ut.onl/career](https://ut.onl/career)



## LET CAREER SERVICES HELP YOU OUT!

As a UT student, you can benefit from our large, expert network of student organisations, faculties and alumni. Our Career Services Team is here to help you in thinking about your future – so that your career gets off to a flying start as soon as you get your diploma! They will gladly connect you with the right people, inside or outside UT.



# DUTCH STUDENT LIFE

The Netherlands is known for its capital city, Amsterdam, as much as for its bikes, water management, and tolerance. But what is it really like to study in this small country in Northwest Europe? And what secrets are there to discover at our campus and university city, Enschede?

*The city centre of Enschede*

## QUICK FACTS



**161,303**  
INHABITANTS OF ENSCHEDE



**46**  
SPORTS ASSOCIATIONS



**18**  
CULTURE ASSOCIATIONS



**13**  
WORLD ASSOCIATIONS



**430**  
PUBS AND RESTAURANTS IN ENSCHEDE

## THE STUDENT UNION

An organisation for students and by students, that is UT's Student Union. They know there's more to student life than studying, and they aim to empower you to achieve more than a degree, by organising services and events, and representing the student's perspective in policy issues.

### MOST DUTCH PEOPLE SPEAK ENGLISH

Most Dutch people speak or understand English. In fact, the Netherlands is ranked number 1 in the world when it comes to proficiency in English as a second language! It comes as no surprise, then, that many internationals study and work here. Studying in the Netherlands can help you develop an open mind and an international perspective.

### GETTING AROUND IS EASY

The Netherlands is a small country and home to over seventeen million people. Many European capitals are within easy reach: Berlin and Brussels are four-and-a-half hours away by train. Public transport is well-organised and safe. To travel the Dutch way, get a bicycle; in the Netherlands, there are actually more bikes than people!

### ENSCHDE, A TYPICAL STUDENT CITY

Enschede has more than 161,000 inhabitants, a third of whom are students because of the presence of three higher education institutions. The city boasts colourful weekly markets, bustling shopping streets, and well-tended parks. Its student population gives the city its flair. Every day, you will see students cycling to their classes, reading on the banks of Rutbeek Lake or having fun in the Old Market pubs.

### STUDENT ACCOMMODATIONS

Enschede is popular among students because of its numerous associations, cosy restaurants, and friendly atmosphere. Next to that, finding suitable housing is generally cheaper and easier than in other Dutch student cities! But bear in mind: each year, over 4,000 new students start at the University and start their search for accommodation at the same time as you. So, to ensure a smooth start of your student life, we strongly advise you to arrange your accommodation before the start of your studies. You can find suitable accommodation in the cities of Enschede and Hengelo or on the University campus. If you are a visa student (non-EU/EEA), you are guaranteed to receive a housing offer for a period of one year.

### HOW TO MEET NEW PEOPLE? JOIN AN ASSOCIATION

A striking element of student life in Enschede is the presence of study, sports, cultural, social, and



*The Batavierenrace, the largest relay race in the world, finishes on our campus.*



*Holi Colour Festival on campus*

international associations. Joining an association will support you with everyday situations and help you settle in and make friends. But first, you start your student life with the introduction week 'The Kick-In': the absolute best way to meet other students and explore the campus and all other aspects of your future student life!



**SCAN THE QR TO GET INFORMATION ABOUT STUDENT LIFE AND HOW TO FIND A HOUSE**

[ut.onl/life](https://ut.onl/life)



## UNION CARD YOUR GATEWAY TO SPORT AND CULTURE

Do you see yourself going climbing after class? Or make some noise in the music studios? Get yourself a Union card! The card offers all kinds of benefits, such as free swimming in Enschede, and free use of our music studios. It is also a good way to meet fellow students.







# OUR MASTER'S

At the University of Twente, we offer 20 bachelor's and over 30 master's programmes. Most of the studies are English-taught. All of our master's lead to the title Master of Science and each one is accredited by the independent Accreditation Organisation of the Netherlands and Flanders (NVAO).

## QUICK FACTS



**4,883**  
MASTER'S STUDENTS



**35**  
MASTER'S PROGRAMMES



**114**  
DIFFERENT STUDENT NATIONALITIES



**232**  
PARTNER UNIVERSITIES WORLDWIDE



**378**  
LAB FACILITIES

## 4TU. PROGRAMMES

Programmes that include the '4TU' logo offer you the option of taking courses at any of the four leading universities of technology in the Netherlands belonging to the so-called 4TU. Federation: Delft University of Technology, Eindhoven University of Technology, Wageningen University & Research, and the University of Twente.

- > APPLIED MATHEMATICS
- > APPLIED PHYSICS
- > BIOMEDICAL ENGINEERING
- > BUSINESS ADMINISTRATION
- > BUSINESS INFORMATION TECHNOLOGY
- > CHEMICAL SCIENCE & ENGINEERING
- > CIVIL ENGINEERING & MANAGEMENT
- > COMMUNICATION SCIENCE
- > COMPUTER SCIENCE
- > CONSTRUCTION MANAGEMENT & ENGINEERING
- > EDUCATIONAL SCIENCE & TECHNOLOGY
- > ELECTRICAL ENGINEERING
- > EMBEDDED SYSTEMS
- > ENVIRONMENTAL & ENERGY MANAGEMENT
- > EUROPEAN STUDIES
- > GEO-INFORMATION SCIENCE & EARTH OBSERVATION
- > GEOGRAPHICAL INFORMATION MANAGEMENT & APPLICATIONS
- > HEALTH SCIENCES
- > INDUSTRIAL DESIGN ENGINEERING
- > INDUSTRIAL ENGINEERING & MANAGEMENT
- > INTERACTION TECHNOLOGY
- > MECHANICAL ENGINEERING
- > NANOTECHNOLOGY
- > PHILOSOPHY OF SCIENCE, TECHNOLOGY & SOCIETY
- > PSYCHOLOGY
- > PUBLIC ADMINISTRATION
- > ROBOTICS
- > SCIENCE EDUCATION & COMMUNICATION 
- > SPATIAL ENGINEERING
- > SUSTAINABLE ENERGY TECHNOLOGY
- > TECHNICAL MEDICINE 
- > WATER TECHNOLOGY

## YOU ARE IN CHARGE OF YOUR OWN GROWTH

The Dutch education system is interactive with an exceptional focus on teamwork and independent, proactive thinking. At UT, there are many ways to develop your expertise, both inside and outside your master's, and in many cases, there's a lot of customisation possible. For example, master's programmes often contain considerable elective space and many programmes offer various specialisations for you to develop expertise in a specific domain.

## EXPAND YOUR NETWORK GLOBALLY

Want to broaden your horizon and study abroad? UT has an extensive network of leading organisations and international companies, such as ASML, Demcon, Boeing, Unilever, Google, Philips, and many more. We are also part of the European Consortium of Innovative Universities (ECIU) and founding member of the ECIU University. With over 230 partner universities worldwide, you have many options to spend time of your studies at a university abroad, or go on an international internship, for example. In some cases, you can even opt for a double degree, in which you can obtain a second master's degree either at UT or at a partner university.

## HONOURS PROGRAMMES

Excellent students can take part in one of our Master Honours Programmes: an extracurricular, broadening programme, that gives you the opportunity to enrich your knowledge, skills, and experiences outside your own discipline. You follow this programme alongside your master's and it will take about 10 to 14 hours per week on top of your regular study load.

## A HELPING HAND

When you start your studies, your first point of contact will be your study adviser. They will monitor your progress and help you deal with academic and study-related issues. In case you are hindered by personal circumstances or problems that affect your studies or wellbeing, our Student Affairs, Coaching and Counselling team can help you find the support you need.



SCAN THE QR TO LEARN MORE ABOUT OUR MASTER'S, JOINT DEGREES AND PARTNER UNIVERSITIES

[ut.onl/masters](https://ut.onl/masters)





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,000 per month



**POTENTIAL EMPLOYERS**

- Thales
- Sencure
- Rabobank



**POTENTIAL JOBS**

- Data Scientist
- Application Specialist
- Product Manager

# APPLIED MATHEMATICS

Can you predict when something goes viral? How can you detect diseases using medical imaging? What happens in your brain during an epileptic seizure? These questions have one thing in common: mathematics is the answer. In this Master’s, you will apply mathematics to challenging issues in diverse sectors. You will learn how to discover new patterns and how to predict them through mathematical models. Within your specialisation, you have room for quite a few electives. In addition to courses, you will do an internship or project at a company or organisation outside the University. This can be abroad or at a company in the Netherlands. Both in your internship and your master’s assignment you have quite some freedom in choosing your topic. With employers in the technical, financial, medical and social sectors increasingly seeking mathematicians who can come up with practical solutions, you will be important to society as well as hugely in demand in the job market.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>
<b>CREDITS</b>	120 EC	- Mathematical Systems Theory, Applied Analysis & Computational Science
<b>DURATION</b>	2 years	- Operations Research
<b>STARTS</b>	September or February	- Mathematics of Data Science
<b>LANGUAGE</b>	English	

[UT.ONL/AM](#)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,836 per month



**POTENTIAL EMPLOYERS**

- McKinsey & Company
- TNO
- Demcon



**POTENTIAL JOBS**

- Researcher
- Product Engineer
- Data Analyst

# APPLIED PHYSICS

Applied Physics is all about understanding the fundamental laws of the physical world and finding ways to apply those laws through technical solutions. Applied physicists use scientific principles to create or improve practical devices and systems, and to contribute to many other fields. The physics department at UT is one of the best in the world. During this Master’s, you will learn more about the fundamentals of modern physics and their application. You will expand your knowledge of physics as a whole while having the opportunity to deepen your knowledge in a specialisation of your choice. We focus on science and engineering in areas such as Physics of Fluids, Quantum Physics, Nano Electronic Materials, Applied Nanophotonics, Soft Matter, Energy Materials & Systems and Materials Science & Engineering. You can tailor your programme to suit your individual interests and ambitions.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>	
<b>CREDITS</b>	120 EC	- Physics of Fluids	- Soft Matter
<b>DURATION</b>	2 years	- Quantum Physics	- Energy Materials & Systems
<b>STARTS</b>	September or February	- Nano Electronic Materials	- Materials Science & Engineering
<b>LANGUAGE</b>	English	- Applied Nanophotonics	

[UT.ONL/APH](#)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,043 per month



**POTENTIAL EMPLOYERS**

- Philips
- Abbott
- Princess Maxima Medical Centre



**POTENTIAL JOBS**

- Product Developer
- Consultant
- Biomedical Engineer

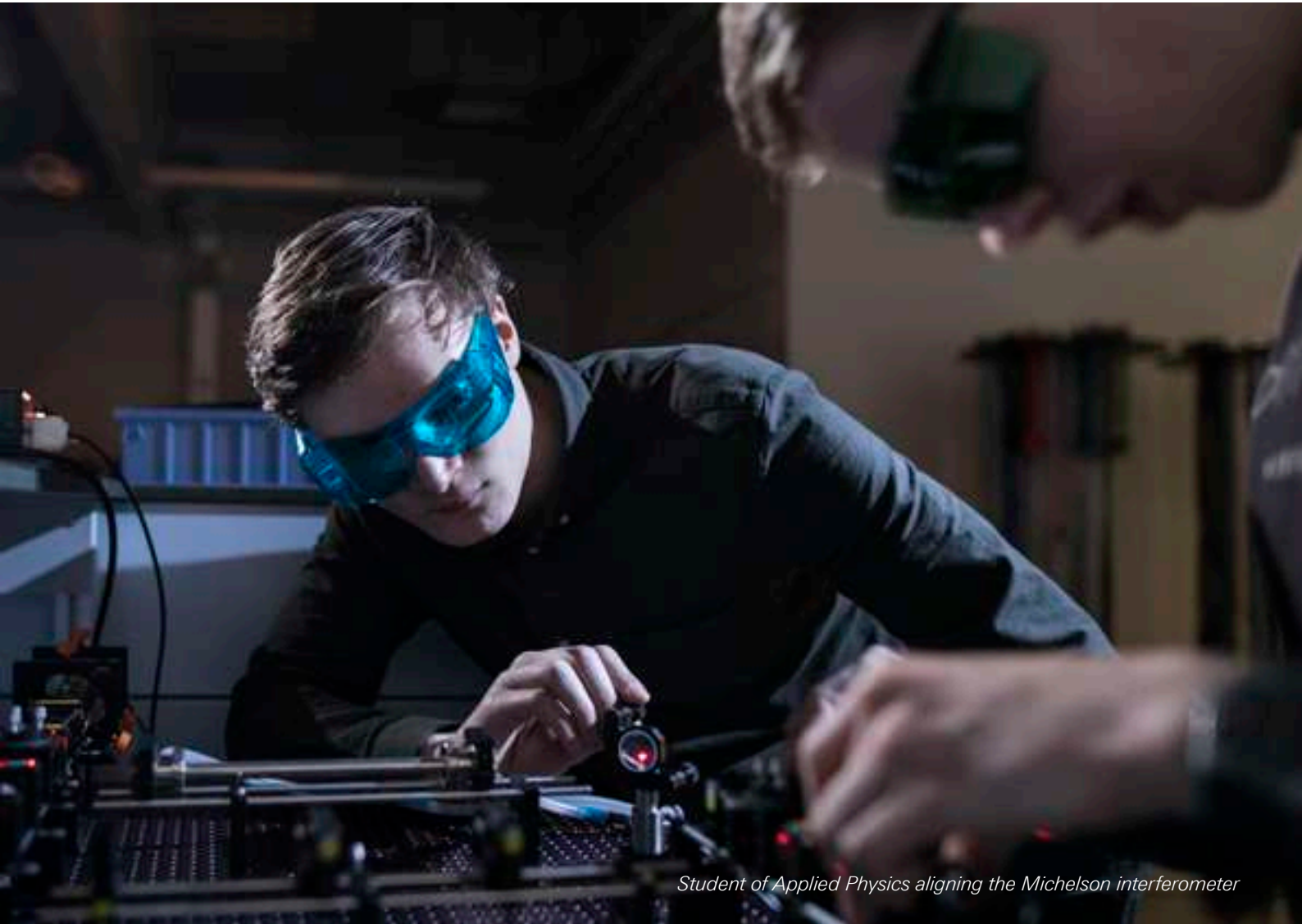
# BIOMEDICAL ENGINEERING

Are there friendlier, less painful or less harmful methods to detect breast cancer? Can you pave the way for animal-free drug testing by developing mini organs-on-a-chip that can mimic an actual human organ? And what about detecting complex diseases like Parkinson’s or Alzheimer’s at an early stage, or developing an exo-skeleton to train paralysed patients to walk?

This Master’s teaches you to research, design and develop medical innovations that contribute to better healthcare – think of the improvement of diagnostics, treatment or rehabilitation, but also prevention and better quality of life. You will combine engineering skills in disciplines such as chemistry, physics, nanotechnology, electrical engineering and/or mechanical engineering with in-depth knowledge of biology and medicine. After graduation, you can find a job widely throughout the health technology and healthcare industry. You could join an R&D department, work as a product specialist or opt for a career as a researcher.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>
<b>CREDITS</b>	120 EC	- Bioengineering Technologies
<b>DURATION</b>	2 years	- Imaging & In Vitro Diagnostics
<b>STARTS</b>	September or February (Bioengineering Technologies starts only in September)	- Biorobotics
<b>LANGUAGE</b>	English	- Medical Device Design
		- Physiological Signals & Systems

[UT.ONL/BME](#)



Student of Applied Physics aligning the Michelson interferometer





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,025 per month



**POTENTIAL EMPLOYERS**

- Thales
- ABN AMRO
- Siers Groep



**POTENTIAL JOBS**

- Sales Operations Administrator
- Business Analyst
- Lead Product Manager

# BUSINESS ADMINISTRATION

In today’s business world, social and technological changes are rapidly unfolding, shaking up entire markets, including customer expectations, supply chains and business models. In such an evolving field, there’s no sense in doing business as usual. The Master’s in Business Administration will teach you how to develop and transform businesses. You will tackle complex and often cross-border business challenges to make companies sustainable for the future.

There are seven interesting, unique specialisations to build your expertise. You can even go for a double degree with one of our partner universities in Germany (Berlin), Italy (L’Aquila), or Finland (Lappeenranta). You will be in high demand in the (international) job market. You could pursue exciting jobs in business development, marketing & sales, consultancy, project management, operations & IT, or even in research or education, or you could start up your own business!

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>	
<b>CREDITS</b>	60 EC (or 120 EC Double Degree)	- Digital Business & Analytics	- International Management & Consultancy
<b>DURATION</b>	1 year (or 2 year Double Degree)	- Entrepreneurship, Innovation & Strategy	- Purchasing & Supply Management
<b>STARTS</b>	September or February	- Financial Management	- Strategic Marketing & Servitisation
<b>LANGUAGE</b>	English	- Human Resource Management	

 UT.ONL/BA



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,275 per month



**POTENTIAL EMPLOYERS**

- AUDI AG
- ABN AMRO
- Deloitte



**POTENTIAL JOBS**

- IT Project Manager
- Risk Analyst
- Business Analyst

# BUSINESS INFORMATION TECHNOLOGY

Information Technologies continue to drastically change the way we live and work. Businesses today cannot function without them, and numerous complex business challenges find their solutions in IT. This Master’s enables you to help businesses to become smarter, using innovative IT-based solutions. It will give you insights into complex business processes and organisations as well as in-depth knowledge of modern information systems and their underlying technologies.

You will build your expertise within one of the two specialisations: Data Science & Business or Enterprise Architecture & IT Management. You can even go for a double degree option with our partner university in Münster, Germany. You will be in high demand in the job market. You could pursue a career as e.g. data analyst, IT consultant, enterprise architect, data scientist, or IT manager at, e.g. software companies, financial institutions, consultancy agencies, commercial organisations, or healthcare institutions.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>
<b>CREDITS</b>	120 EC	- Enterprise Architecture & IT Management
<b>DURATION</b>	2 years	- Data Science & Business
<b>STARTS</b>	September or February	
<b>LANGUAGE</b>	English	

 UT.ONL/BI



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,836 per month



**POTENTIAL EMPLOYERS**

- DSM Engineering Materials
- Nouryon
- NX Filtration



**POTENTIAL JOBS**

- R&D Scientist
- Process Developer
- Quality Coordinator

# CHEMICAL SCIENCE & ENGINEERING

The chemical industry finds itself at a turning point. Society demands a more sustainable economy, including the circular use of raw materials. Moreover, advances in materials are rapidly unfolding, paving the way for promising breakthroughs in many fields, from medicine, energy, and transportation to sustainability. This Master’s will prepare you for the advancing role that chemical scientists and engineers have in today’s society. You will engage in pioneering research to develop, improve and implement chemical processes, products and materials, from reusing CO<sub>2</sub> to detecting diseases and from improving batteries to purifying water. Build your expertise within one of the three specialisations: Chemical & Process Engineering, Molecular & Materials Engineering or Materials Science & Engineering. Innovations will be needed in many different sectors. As a graduate, you could start a career as, for example, a researcher, process engineer, R&D scientist, consultant, or pursue a PhD.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>
<b>CREDITS</b>	120 EC	- Chemical & Process Engineering
<b>DURATION</b>	2 years	- Molecular & Materials Engineering
<b>STARTS</b>	September	- Materials Science & Engineering
<b>LANGUAGE</b>	English	

 UT.ONL/CHE



Chemical Science & Engineering student working in the high pressure lab





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,900 per month



**POTENTIAL EMPLOYERS**

- Arcadis
- Antea
- ProRail



**POTENTIAL JOBS**

- Civil Engineer
- Project Manager
- Consultant

# CIVIL ENGINEERING & MANAGEMENT

This Master’s is the first programme in the Netherlands to focus extensively on both the technical and non-technical aspects of the planning, design, realisation, and maintenance of civil engineering projects and systems. High-speed rail, the Betuwe freight railway, dike improvements, and the ‘Manhattan on the Maas’ development project in Rotterdam are all technically feasible projects. Technology, however, is not the only determining factor in the result. Many other factors need to be taken into account early in the planning phase of such projects: policy, political interests, participation and permits, land expropriation, environmental impact studies, costs, budgeting and price control, logistic efficiency, and safety. The job market requires engineers who are true process thinkers, and who can oversee, analyse and predict all aspects of the design and execution of civil engineering projects. This Master’s will train you to be just such an engineer.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Integrated Civil Engineering Systems
- Construction Management & Engineering
- Transport Engineering & Management
- Water Engineering & Management



Students of Communication Science interacting with a social robot



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,600 per month



**POTENTIAL EMPLOYERS**

- Philips
- INTK
- Bol.com



**POTENTIAL JOBS**

- Communications Adviser
- Online Marketeer
- Content Specialist

# COMMUNICATION SCIENCE

To understand communication in today’s highly digitised and networked society is to understand organisations, marketing, consumers, public relations and many other important aspects of society. That is why this Master’s is about more than just selling products and designing websites. You will be trained to become an expert in how people and organisations interact with and through the latest innovations. You will learn about topics such as VR and AR, AI, filter bubbles, fake news, corporate social responsibility, crisis communication and conspiracy theories; always in the context of a major societal challenge, such as polarisation, sustainability and security.

You can choose a combination of courses or decide to follow one of the three focus areas: Organisational Communication & Reputation, Technology & Communication, or Digital Marketing Communication & Design. You can pursue a career as, for example, a communication or PR advisor, UX designer, online marketer or media designer.

**MODE OF STUDY** full-time  
**CREDITS** 60 EC  
**DURATION** 1 year  
**STARTS** September or February  
**LANGUAGE** English

**FOCUS AREAS**

- Organisational Communication & Reputation
- Technology & Communication
- Digital Marketing Communication & Design



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,200 per month



**POTENTIAL EMPLOYERS**

- Nedap
- Dutch Government
- Rabobank



**POTENTIAL JOBS**

- Software Developer
- Cyber Security Analyst
- Business Analyst

# COMPUTER SCIENCE

In today’s smart society, humans, organisations and systems increasingly rely on networked digital technology. Our Master’s in Computer Science will enable you to contribute to this smart society as a researcher, designer or entrepreneur. You will study key aspects, such as reliable, durable software, cyber-physical systems, data science, and cyber security. You will also get familiar with specific application areas, such as energy, health, industry, business, and transport. The University of Twente is considered a global leader in Computer Science research, with strong research pillars in Dependable Networked Systems, Human-Centred Computing, and Data Science. In this programme, you will be taught by and work closely with the researchers involved. As a graduate, you will have excellent career prospects. You can become a software developer, an ICT security specialist, a data scientist, an academic researcher, or even the chief technology officer of your own ICT start-up.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Cyber Security
- Data Science & Technology
- Internet Science & Technology
- Software Technology





Construction Management & Engineering students working on a construction site



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,900 per month



**POTENTIAL EMPLOYERS**

- ASML
- Capgemini
- CGI



**POTENTIAL JOBS**

- Civil Engineer
- Construction Supervisor
- Technical Consultant

## CONSTRUCTION MANAGEMENT & ENGINEERING

Complicated supply chains, resource shortages, advances in technologies, ageing infrastructure and the need for sustainable, futureproof buildings and infrastructure: construction projects are becoming more complex, especially as digitalisation is revolutionising the construction sector drastically. This Master's helps you to manage large projects within the contemporary construction industry. From constructing and maintaining roads to building skyscrapers, you will learn to manage all processes involved. You can focus on the technological aspects within the profile Digital Technologies in Construction or the organisational aspects within the profile Markets & Organisation of Construction. After graduation, you can look forward to great career opportunities. Thanks to your broad, yet expert knowledge and skills, organisations will be eager to onboard you, from contractors to engineering and consultancy firms to government institutions.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**PROFILES**

- Markets & Organisation of Construction
- Digital Technologies In Construction

 [UT.ONL/CME](https://ut.nl/cme)

**4TU.** The 4TU.Federation, the partnership of the four universities of technology in the Netherlands, is committed to strengthening and bundling technological knowledge.



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,887 per month



**POTENTIAL EMPLOYERS**

- Philips
- TradeTracker
- Belastingdienst



**POTENTIAL JOBS**

- Educational Science Teacher
- Educational Scientist
- Learning and Development Consultant

## EDUCATIONAL SCIENCE & TECHNOLOGY

Are you fascinated by learning, education, and training, but not necessarily dreaming of becoming a teacher, you can pursue your passion in this Master's. Education is a key factor to bring growth and progress into society. But what motivates people to engage in learning? And what is the possible impact of technology on education? This Master's teaches how to design, implement and evaluate learning scenarios in schools and organisations. You will systematically solve complex educational problems, using academic skills and digital technologies, such as VR and other e-learning tools.

About 80% of this Master's is customisable. Whether you want to focus on formal education or human resource development, you can tailor the content to your interests and ambitions. After graduation, you could work as a researcher, consultant or educational designer within various settings, such as educational or consultancy firms, educational publishers, corporate HR, schools and the government.

**MODE OF STUDY** full-time/part-time  
**CREDITS** 60 EC  
**DURATION** 1 year (full-time)  
**STARTS** September or February  
**LANGUAGE** English

 [UT.ONL/EST](https://ut.nl/est)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,200 per month



**POTENTIAL EMPLOYERS**

- ASML
- NXP
- Demcon



**POTENTIAL JOBS**

- Design Engineer
- Electrical Engineer
- System Architect

## ELECTRICAL ENGINEERING

Are you eager to invent new methods and technologies in high-tech, wirelessly connected, electronics-based systems? Are you interested in developing lab-on-a-chip technologies to explore Alzheimer's disease? What about the design of a Radio Frequency transmitter for a 5G massive Multi Input Multi Output base station? In this Master's you will learn from world-class researchers how to push the boundaries of technology in order to create new functionalities or to enhance, accelerate or scale down electronics-based and electronics-enhanced systems. We offer various specialisations, so you can tailor it to your personal interests. This Master's focuses on innovation of information systems, data science, analogue and digital electronic design, semiconductor and nanotechnologies, system engineering, internet of things, telecommunication and radio systems, biomedical applications and power electronics. As a graduate, you are in high demand in the job market or can pursue a career in research.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

 [UT.ONL/EE](https://ut.nl/ee)





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,200 per month



**POTENTIAL EMPLOYERS**

- Demcon
- Nedap
- Dutch Tax and Customs Administration



**POTENTIAL JOBS**

- Embedded Software Engineer
- Firmware Engineer
- System Engineer

**4TU.** The 4TU.Federation, the partnership of the four universities of technology in the Netherlands, is committed to strengthening and bundling technological knowledge.

# EMBEDDED SYSTEMS

Can we design hardware and software for fast and efficient deep learning? Can we prove that an airbag inflates in time? How far are we in developing embedded software for maximising the energy efficiency of a power grid? This Master’s focuses on the combination of hardware (electrical engineering) and software (computer science) for applications ranging from pacemakers, smartphones, and anti-lock brakes on cars to radars and base stations for future 5G/6G telecommunication systems. You will focus on topics such as Computer Architectures, Embedded AI, Internet of Things, Dependable Computing, and Cyber-Physical Systems. Moreover, you can choose your field of focus by selecting a set of elective courses. It goes without saying that as, an embedded engineer with in-depth knowledge and skills in integrating hardware and software components, you can look forward to excellent career prospects.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

[UT.ONL/ESYS](https://ut.onl/esys)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,800 per month



**POTENTIAL EMPLOYERS**

- Tesla
- Philips
- ENGIE



**POTENTIAL JOBS**

- Sustainability Manager
- Energy Analyst
- Environmental Consultant

# ENVIRONMENTAL & ENERGY MANAGEMENT

In this Master’s of UT, which takes place in Leeuwarden, Friesland, you will become an expert in the management and governance of three crucial, interrelated natural resources: the environment, energy, and water.

Today’s challenges – for example, climate change, resource depletion, and urbanisation – call for professionals able to organise, manage and lead socio-technological change. This combined focus on thinking and doing lies at the heart of this programme. This Master’s will provide you with knowledge, skills, and competencies in disciplines like management, governance, and law. It focuses on the administrative, organisational, and technical causes underlying water, environmental or energy problems – and on strategies for controlling these problems and stimulating sustainable development. You can specialise in the field of energy, environmental, or water management. Upon graduation, you can work in multidisciplinary business, government, consultancy, or research teams.

**MODE OF STUDY** full-time  
**CREDITS** 60 EC  
**DURATION** 1 year  
**STARTS** September  
**LANGUAGE** English

**SPECIALISATIONS**

- Environmental Management
- Energy Management
- Water Management

[UT.ONL/MEEM](https://ut.onl/meem)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,447 per month



**POTENTIAL EMPLOYERS**

- Ministry of Health, Welfare and Sport
- European Commission
- Centre of Policy Studies



**POTENTIAL JOBS**

- Integration Consultant
- Policy Officer
- Adviser International Cultural Relations

# EUROPEAN STUDIES

Do you recognise that we live in a globalised world with challenges such as security, migration, social inequality, and climate change? Do you want to understand how governments and societal stakeholders operate in the context of the European Union? Do you want to help design solutions for these challenges from the lens of the European Union as an actor on a global scale? Then the Master’s in European Studies is right for you.

You can gain a cross-border perspective and combine this programme in a double degree with the Master’s in Comparative Governance at the University of Münster. This way you obtain a joint diploma offered by UT and the University of Münster.

Not only in Brussels, but also within national governments, private businesses, and the non-profit sector, there is a growing need for professionals with the right knowledge, insights, and skills to understand the role that Europe can play in solving global challenges.

**MODE OF STUDY** full-time  
**CREDITS** 60 EC (or 120 EC Double Degree)  
**DURATION** 1 year (or 2 year Double Degree)  
**STARTS** September or February  
**LANGUAGE** English

[UT.ONL/MES](https://ut.onl/mes)



Students of European Studies doing project work





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,800 per month



**POTENTIAL EMPLOYERS**

- Ministry of Infrastructure and Water Management
- Witteveen+Bos
- Forestry Commission



**POTENTIAL JOBS**

- GIS / GEO specialist
- Hydraulic Consultant
- Consultant Energy Transition

# GEO-INFORMATION SCIENCE & EARTH OBSERVATION

In this Master's, you will acquire the theoretical knowledge, technical skills, and big data analytics competencies to explore, analyse, and visualise geospatial and remote sensing data and design innovative and sustainable solutions to a growing range of global challenges. You will learn to address the growing range of global challenges that our society and vulnerable populations worldwide are facing by using geo-information systems. You will contribute to improvements in the domains of food and water security, natural resources management, geo-health, climate change adaptation, urban development and smart cities, disaster risk reduction, and responsible land administration. You can work as a policy adviser, geo-information consultant, GIS analyst, environmental management consultant, or remote sensing specialist for a wide range of non-governmental or corporate organisations, governments, consultancy agencies, research institutes, public service corporations, and mapping agencies.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September  
**LANGUAGE** English

**SPECIALISATIONS**

- Applied Remote Sensing for Earth Sciences
- Geoinformatics
- Geo-Information Management for Land Administration
- Natural Hazards & Disaster Risk Reduction
- Natural Resources Management
- Urban Planning & Management
- Water Resources & Environmental Management
- Free Specialisation

[UT.ONL/GEO](https://ut.onl/geo)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,800 per month



**POTENTIAL EMPLOYERS**

- GeoCensus
- NATO
- Ministry of Agriculture and Environment in Slovenia



**POTENTIAL JOBS**

- GIS Specialist and Project Leader
- Chief Meteorology
- GIS Adviser

# GEOGRAPHICAL INFORMATION MANAGEMENT & APPLICATIONS

Today's society requires more and more geographical information. Think of physical planning, analysing the spread of epidemic diseases, risk management, navigation systems, location-based services, movement analysis, augmented reality, the increasing use of maps, and volunteered geographical information.

This programme is a comprehensive Master's, focusing on the management and application of geographical information from a scientific perspective. Two additional aspects contribute to the uniqueness of the programme: GIMA is a joint venture involving four renowned Dutch universities Utrecht, Delft, Twente and Wageningen; and it is a blended learning programme, enabling you to do most of your studying from the place at which you study best (home or office). Only the first and the last weeks of each module are classroom-based.

**MODE OF STUDY** full-time or part-time/blended learning  
**CREDITS** 120 EC  
**DURATION** 2 years (full-time) or 4 years (part-time)  
**STARTS** September  
**LANGUAGE** English

[UT.ONL/GIMA](https://ut.onl/gima)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,925 per month



**POTENTIAL EMPLOYERS**

- Menzis
- GGD
- Radboud University Medical Centre



**POTENTIAL JOBS**

- Project Manager
- Consultant
- Public Health Policy Adviser

# HEALTH SCIENCES

Staffing shortages, rising healthcare costs, technological innovations and an ageing population pushing the demand for healthcare services: the healthcare sector is facing many challenges all at once. Do you want to improve the quality of healthcare as well as public health, and are you eager to determine how healthcare will be organised in the future? In this Master's, you will focus on healthcare policy and organisation, with attention to the role of technology in healthcare. How do you keep healthcare affordable? How can you influence attitude and behaviours of people with technology (e-health)? Can you use data to predict healthcare needs and adjust policies accordingly? How do you involve citizens and/or patients in decision-making processes? And what does it take to make the healthcare industry more sustainable? Upon graduation, you can pursue a career in all areas of healthcare, from hospitals or home care to insurance companies, government institutions or consultancy agencies.

**MODE OF STUDY** full-time  
**CREDITS** 60 EC  
**DURATION** 1 year  
**STARTS** September  
**LANGUAGE** English

**SPECIALISATIONS**

- Personalised Monitoring & Coaching
- Optimisation of Healthcare Processes
- Innovation in Public Health

[UT.ONL/HS](https://ut.onl/hs)



Students of Geo-Information Science & Earth Observation working with the Matrice 600 Pro, a heavy-lift drone





Industrial Design Engineering student working in the 3D printing lab



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,800 per month



**POTENTIAL EMPLOYERS**

- ASML
- FrieslandCampina
- Philips



**POTENTIAL JOBS**

- Mechanical Design Engineer
- Brand Manager
- Marketing Manager

## INDUSTRIAL DESIGN ENGINEERING

In your daily life, you are continuously surrounded by products. Why are they shaped the way they are? What user demands do they meet, what processes lie behind the development, and what technologies are involved? That's what the Master's in Industrial Design Engineering is about. It provides you with in-depth, scientific insights to design and engineer innovative products that enrich people's lives. Moreover, you learn to overlook and improve the whole development process. You can choose one of the three specialisations.

The demand for industrial design engineers is eminent and growing, as innovation and smart design are gaining importance in our society. So after graduation, there are plenty of job opportunities. You can become the industrial design engineer you want to be: whether that's a specialist in engineering a specific type of product, the manager that oversees the whole production process, or the researcher who applies the newest scientific insights in product design.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Human Technology Relations
- Management of Product Development
- Emerging Technology Design



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,025 per month



**POTENTIAL EMPLOYERS**

- Philips
- ABN AMRO
- ASML



**POTENTIAL JOBS**

- Tactical Buyer
- Manager Customer Supply Chain Management
- Head of Business Engineering

## INDUSTRIAL ENGINEERING & MANAGEMENT

Businesses and organisations need creative, multidisciplinary managers who combine technological know-how with engineering and management skills. During this Master's you will learn to use simulations, mathematical, and/or statistical models to solve problems and improve the performance of (international) organisations. This Master's enables you to improve operational processes, in which multiple and sometimes competing objectives need to be considered, such as improving quality and service, managing risks, increasing productivity, reducing costs, and sustainability. The multidisciplinary approach of this Master's helps you become the all-round, yet specialised manager, many organisations are looking for. There are three specialisations to choose from. Upon graduation you could work as a consultant, researcher, or in a management role in different sectors.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Financial Engineering & Management
- Healthcare Technology & Management
- Production & Logistic Management



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,944 per month



**POTENTIAL EMPLOYERS**

- Movella
- Philips
- TNO



**POTENTIAL JOBS**

- User Experience Designer
- Innovation Consultant
- Product Owner

## INTERACTION TECHNOLOGY

Modern technology is integrated into our daily lives more than ever. None of the advanced technologies we use today would have been successful if humans failed to interact with them. Human-computer interaction is one of the most important considerations in any kind of technological development. So how can you include the user in those developments? In this Master's, you will learn to design intelligent, interactive, and socially aware systems that are aligned with end-user needs and can enhance user experience.

With a broad selection of courses to choose from within domains of technology, social sciences, design, research, entrepreneurship, and more, you can create your own profile. You can even go for a double degree and spend one year abroad! Now that smart innovations are rapidly unfolding, there's a growing demand for experts who can truly embody the view of the user. You can look forward to great career opportunities after graduation, as a designer, researcher, or entrepreneur.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English





**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,043 per month



**POTENTIAL EMPLOYERS**

- Siemens
- Shell
- VDL Enabling Technologies



**POTENTIAL JOBS**

- Mechanical Engineer
- Product Developer
- Maintenance Engineer

# MECHANICAL ENGINEERING

What does it take to build and optimise renewable energy systems, like wind turbines or heat pumps? How can you make smart material choices for the design of aircraft, machine parts, or medical equipment? You will learn this and much more during the Master’s in Mechanical Engineering. This Master’s focuses on the design, analysis, and maintenance of machinery, structures, products as well as production processes. It covers the breadth of the field of mechanical engineering, addressing subareas like solid and fluid mechanics, materials science, control and robotics, design, manufacturing techniques, tribology, biomechanics, and more. You can develop your own expertise by choosing one of the seven specialisations.

As a mechanical engineer, you can pursue a career in a broad range of engineering positions, and in a wide variety of sectors, from the manufacturing, energy, transport, aeronautics, automotive, consumer goods, and the maritime industry to the biomedical field.

<b>MODE OF STUDY</b>	full-time	<b>SPECIALISATIONS</b>	
<b>CREDITS</b>	120 EC	- Aeronautics	- High-Tech Systems & Materials
<b>DURATION</b>	2 years	- Design & Manufacturing	- Personalised Health Technology
<b>STARTS</b>	September or February	- Energy & Flow	- Smart & Sustainable Industry Operations
<b>LANGUAGE</b>	English	- Maintenance Engineering & Operations	

[UT.ONL/ME](#)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€3,043 per month



**POTENTIAL EMPLOYERS**

- Lionix
- ASML
- MESA+



**POTENTIAL JOBS**

- Researcher
- Laboratory Leader
- R&D Engineer

# NANOTECHNOLOGY

How can you diagnose diseases, such as cancer, at an early stage? Are there more sustainable ways to store energy? And how can you make a sensor that checks water pollution levels on a large scale? These important, societal questions all have one thing in common: nanotechnology might be the answer!

In this Master’s, you will learn to invent, design and develop innovative solutions on the extremely small nanoscale. You will combine disciplines such as physics, chemistry, electrical and biomedical engineering. The applications of nanotechnology are nearly endless, with three main application areas: Health, ICT, and sustainability. As a student, you will get access to the state-of-the-art NanoLab of the world-renowned MESA+ Institute, including one of the largest cleanrooms in Europe. Once graduated, you can continue with a PhD, or, fulfil a job at a high-tech company, creating new materials, technologies, or products in various sectors. Starting your own company is also an option!

<b>MODE OF STUDY</b>	full-time
<b>CREDITS</b>	120 EC
<b>DURATION</b>	2 years
<b>STARTS</b>	September
<b>LANGUAGE</b>	English

[UT.ONL/NT](#)



**DEGREE**  
Master of Science



**AVERAGE GROSS SALARY**  
€2,495 per month



**POTENTIAL EMPLOYERS**

- McKinsey & Company
- Philips Healthcare
- Air France - KLM



**POTENTIAL JOBS**

- Chief Strategy Officer
- Senior Machine Learning Specialist
- Solution Associate Public Health

# PHILOSOPHY OF SCIENCE, TECHNOLOGY & SOCIETY

There is an ever-growing demand for experts who understand the complex interplay between science, technology, and society. In this Master’s, you will learn how to help policymakers and businesses reflect critically on the role of science and technology in society. You will take a distinct philosophical approach to analyse the benefits and dangers of modern technologies and examine how companies and governments can implement relevant digital solutions.

You also have the opportunity to follow a double degree and combine this Master’s with either Business Administration or Public Administration at UT. With such a double degree, you will receive two Master’s diplomas in two years’ time.

Completing this Master’s opens various career doors to you: you can become a government consultant, a concept developer, or an innovation adviser. If you want to pursue an academic career, you can apply for the 4TU Ethics and Technology track to expand your research skills.

<b>MODE OF STUDY</b>	full-time
<b>CREDITS</b>	120 EC
<b>DURATION</b>	2 years
<b>STARTS</b>	September
<b>LANGUAGE</b>	English

[UT.ONL/PST](#)



Nanotechnology students experimenting in the cleanroom of UT’s NanoLab



**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,649 per month

**POTENTIAL EMPLOYERS**

- Mediant Mental Health
- Tactus Addiction Care
- HSK Groep

**POTENTIAL JOBS**

- Psychologist
- Cognitive Behavioural Therapist
- UX Researcher

## PSYCHOLOGY

What does it take for people to trust new technologies? How can you promote healthy lifestyles? What causes (and prevents) criminal behaviour? And how do people process information? In tackling today's challenges, from health crises to criminality to rapid advances in digital technologies, an in-depth psychological understanding of human cognition and behaviour is indispensable.

This Master's will give you insights into various fields of psychology, enabling you to influence human behaviour in today's society. You will build your expertise within one of the five unique specialisations.

After graduation, you could pursue a career in many different fields, depending on your specialisation. One equips you to become a psychologist, whereas another could prepare you for a role as a policymaker, adviser or researcher in all kinds of sectors (e.g. government, public health, health care, education).

**MODE OF STUDY** full-time  
**CREDITS** 60 EC  
**DURATION** 1 year  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Conflict, Risk & Safety
- Health Psychology & Technology
- Human Factors & Engineering Psychology
- Educational Psychology
- Positive Clinical Psychology & Technology (selection procedure applicable)

[UT.ONL/MPs](https://ut.nl/mps)

**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,804 per month

**POTENTIAL EMPLOYERS**

- National Police Corps
- Ministry of Justice and Security
- Ministry of Foreign Affairs

**POTENTIAL JOBS**

- Policy Adviser
- Integrity Researcher
- Programme Secretary

## PUBLIC ADMINISTRATION

How can governments take action to combat climate change and contribute to the Sustainable Development Goals? How can governments ensure the protection of data security and privacy rights of citizens? And what does it take to keep health-care affordable and available for all citizens? If you are fascinated by the role governments and public organisations play in tackling the grand challenges of our society today, the Master's in Public Administration is right for you. You will learn how to address challenges within the public sector in today's technologically transforming world. You can develop your profile in a domain of your choice: public safety, sustainability, healthcare, public affairs, or the Dutch government.

Because of an ageing workforce and the rise of new (digital) challenges, the demand for skilled professionals within the public domain will continue to grow. That's why you can look forward to great career prospects as a policymaker, policy adviser, lobbyist, or researcher.

**MODE OF STUDY** full-time  
**CREDITS** 60 EC  
**DURATION** 1 year  
**STARTS** September or February  
**LANGUAGE** English

**PROFILES**

- Healthcare
- Safety & Security
- Sustainability
- Public Governance of Science & Technology
- Public Affairs
- Nederlands Openbaar Bestuur (Dutch-taught)

[UT.ONL/PA](https://ut.nl/pa)

**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,944 per month

**POTENTIAL EMPLOYERS**

- DEMCON
- Riwo
- VDL

**POTENTIAL JOBS**

- Systems Engineer
- Mechatronic Systems Engineer
- Embedded Software Engineer

## ROBOTICS

Robots and robotic systems are operating in more ways and places than we often realise. In domains such as manufacturing, inspection and maintenance, construction, navigation, agri-food production, and healthcare, they are carrying out more and more tasks relieving people from difficult, tedious, dangerous, or heavy work. This Master's will equip you to play a leading role in this exciting, expanding field.

You will cover all disciplines involved in developing relevant, valuable robots, from mechatronics to computer science and AI. At the same time, you learn to deal with ethical, legal, societal, and economic aspects. Your grasp of both the high tech and the human touch behind robotics is exactly what industries and research institutes today are looking for. Graduates of this Master's are in high demand in the job market, in sectors such as healthcare, logistics, agriculture, construction, and the high-tech industry.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September or February  
**LANGUAGE** English

**SPECIALISATIONS**

- Mechatronics and Physical AI
- Algorithms and Software AI
- Human-Robot Interaction and Social AI

[UT.ONL/ROB](https://ut.nl/rob)



Robotics student testing an exoskeleton



**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,800 per month

**POTENTIAL EMPLOYERS**

- Het Stedelijk Lyceum Enschede
- Utrecht University of Applied Sciences
- Bonhoeffer College

**POTENTIAL JOBS**

- Mathematics Teacher
- Computer Science Teacher
- Chemistry Teacher

## SCIENCE EDUCATION & COMMUNICATION

During this two-year, Dutch-taught Master's you specialise as a secondary school teacher in mathematics, physics, chemistry, computer science, or design (O&O). You will use your academic background to challenge, inspire, and enthuse your pupils and to promote solid scientific and technical thinking.

Throughout this small-scale programme, you will receive a lot of personal attention and guidance. You also benefit from our excellent expertise and facilities as a leading technical university and gain a lot of practical experience. You become a valuable teacher and professional, responding to what students need and what society requires of them with expertise, commitment, and an innovative approach.

After completing the programme, you receive a Master's diploma and a first-degree teaching qualification, which allows you to work anywhere in Dutch secondary education. Given the demand for academically trained teachers, most of our graduates quickly find jobs.

<b>MODE OF STUDY</b>	full-time
<b>CREDITS</b>	120 EC
<b>DURATION</b>	2 years
<b>STARTS</b>	September or February
<b>LANGUAGE</b>	Dutch

**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,800 per month

**POTENTIAL EMPLOYERS**

- Witteveen+Bos
- Ministry of Infrastructure and Water Management
- Enexis Groep

**POTENTIAL JOBS**

- Geospatial Analyst
- Environmental Planner
- Agronomist

## SPATIAL ENGINEERING

Natural disasters, poverty, food shortage, epidemics, climate change. The challenges society is facing today are characterised by enormous complexity. These so-called wicked problems are impossible to solve in a way that is simple or final. The world needs socially committed engineers who won't shy away from complex challenges but feel the urge to contribute to solutions that will make societies worldwide more sustainable and resilient. In this Master's, you will learn to address large-scale and complex societal challenges by combining both technical and socio-economic knowledge with a strong basis of spatial data analysis and modelling.

With the increasing availability of spatial data and technological innovations, the demand for spatial engineers continues to grow. After graduation, you could work for a broad range of organisations in all kinds of fields, including water management, infrastructure, renewable energy, environmental remote sensing, or agriculture and nature conservation.

<b>MODE OF STUDY</b>	full-time
<b>CREDITS</b>	120 EC
<b>DURATION</b>	2 years
<b>STARTS</b>	September
<b>LANGUAGE</b>	English

**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€3,200 per month

**POTENTIAL EMPLOYERS**

- Shell
- VDL Energy Systems
- Stork

**POTENTIAL JOBS**

- Project Integrator
- R&D Engineer
- Consultant

## SUSTAINABLE ENERGY TECHNOLOGY

With an ever-growing global population and energy demands of industries and consumers rising higher than ever, we are rapidly depleting the non-renewable energy resources on our planet. The problem of climate change has raised the demand for engineers to develop and implement sustainable energy technologies. Do you feel called upon to make a valuable contribution to the sustainable energy transition? If so, the Master's in Sustainable Energy Technology is the right choice for you.

In this Master's, you will gain in-depth expertise within the field of sustainable energy, supplementing it with the broader knowledge and skills that are needed to achieve real change in our societies' energy systems. In this engineering programme, you will develop skills in the field of energy generation, distribution, and storage. This will help you to become a real energy system integrator, able to implement renewable energy technologies in our current or new energy networks.

<b>MODE OF STUDY</b>	full-time
<b>CREDITS</b>	120 EC
<b>DURATION</b>	2 years
<b>STARTS</b>	September or February
<b>LANGUAGE</b>	English

**4TU.** The 4TU.Federation, the partnership of the four universities of technology in the Netherlands, is committed to strengthening and bundling technological knowledge.



Sustainable Energy Technology students working in the thermal lab



**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€3,750 per month

**POTENTIAL EMPLOYERS**

- Radboud UMC
- UMC Utrecht
- Philips

**POTENTIAL JOBS**

- Technical Physician
- Product Specialist
- Clinical Operations Specialist

## TECHNICAL MEDICINE

Technology plays a major and increasingly important role in healthcare and medicine. Think of the use of AI in detecting tumours, wearable sensors that can remotely monitor the health of people with chronic diseases, or the use of 3D printed bone implants or prosthetics. Innovative technological developments appear in rapid succession and demand a medical specialist who knows how to optimally and safely use technology in the diagnosis and treatment of patients. Are you eager to take on this role? Then this Master's is right for you.

You will be trained to become an officially registered technical physician within the Dutch healthcare setting who can combine scientific medical and technical knowledge within various hospital departments, such as radiology, neurology, cardiology, surgery, 3D laboratories or intensive care. There are two specialisations to choose from: Medical Imaging & Interventions or Medical Sensing & Stimulation.

**MODE OF STUDY** full-time  
**CREDITS** 180 EC  
**DURATION** 3 years  
**STARTS** September or February  
**LANGUAGE** Dutch

**SPECIALISATIONS**

- Medical Imaging & Interventions
- Medical Sensing & Stimulation



*Water Technology students preparing samples for analysis*

**DEGREE**

Master of Science

**AVERAGE GROSS SALARY**

€2,836 per month

**POTENTIAL EMPLOYERS**

- Witteveen+Bos
- Aquafilter Europe
- Max Planck Institute

**POTENTIAL JOBS**

- Project Engineer
- Process Technician
- PhD candidate

## WATER TECHNOLOGY (JOINT DEGREE)

In the field of water technology, breakthrough technological developments are required. Not only to enable the export ambitions of the water sector but also to solve global threats and challenges in society. The main added value of the Master's in Water Technology lies in the multidisciplinary study of biotechnology and separation technology. Such a combined technological approach may offer a solution to global developments, within business and society, and have a worldwide impact on the demand for and use of water. You will become an expert who is able to participate in resolving worldwide water issues, equipped with the scientific knowledge and capabilities that you need for a successful career in the dynamic international setting of business and research.

The Master's in Water Technology is offered jointly by Wageningen University, the University of Twente, and the University of Groningen with education being provided at the Technological Top Institute for Water Technology (TTIW Wetsus) in Leeuwarden.

**MODE OF STUDY** full-time  
**CREDITS** 120 EC  
**DURATION** 2 years  
**STARTS** September  
**LANGUAGE** English



## TRANSDISCIPLINARY MASTER-INSERT: SHAPING RESPONSIBLE FUTURES

Shaping Responsible Futures is an award-winning, extracurricular programme that offers you the opportunity to go beyond your normal academic setting by means of challenge-based learning. It is designed for UT master's students from all disciplines and enables you to pursue your interests and become a multi-skilled and open-minded professional, able to constantly adapt to new challenges. Connecting science to society, you collaborate with real-world stakeholders on addressing complex societal challenges. Using tools and techniques from across disciplines, you'll learn to bring together disciplinary and field-specific knowledge from stakeholders. As you participate, you become part of a community of transdisciplinary professionals, develop yourself personally and professionally, and earn a Certificate on Shaping Responsible Futures complementary to your master's programme.

This is a full-time study programme of six months which means you put your regular Master's on hold for half a year.

**MODE OF STUDY** part-time  
**CREDITS** 30 EC  
**DURATION** 6 months  
**STARTS** November  
**LANGUAGE** English





# THE UNIVERSITY OF TWENTE



**1961**

FOUNDING YEAR OF UNIVERSITY



**161,303**

INHABITANTS OF ENSCHEDE



**NR 1**

MOST ENTREPRENEURIAL UNIVERSITY



**2 HOURS**

TRAVEL TIME TO AMSTERDAM

LONDON  
646,5KM

AMSTERDAM  
160,8KM

BERLIN  
508,4KM

ENSCHDE  
UNIVERSITY  
OF TWENTE.

PARIS  
645,3KM

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Enschede  
The Netherlands

## SOCIAL MEDIA



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