UNIVERSITY OF INFINITE AMBITIONS.

MASTER OF SCIENCE DEGREES

ACADEMIC YEAR 2018 - 2019

UNIVERSITY OF TWENTE.
UNIVERSITY OF TWENTE
ACTIVITY CALENDAR
DROP IN, JOIN IN AND EXPERIENCE THE UNIVERSITY OF TWENTE YOURSELF

INFORMATION ACTIVITIES
SEE MORE AT UTWENTE.NL/GO/STUDY-ORIENTATION

OPEN DAYS
- Find out about our programmes, our campus, career opportunities and much more
- For more information visit: utwente.nl/en/opendays

STUDENT FOR A DAY
- A full day with a UT student doing the programme you’re interested in
- A tour of the campus
- An interview with a student counsellor (if you want)
- When: choose your own date on workdays between mid-October and May
- For more information visit: utwente.nl/student-for-a-day

PERSONAL CONTACT
Do you have any questions, hesitations, or do you just want more information?
Feel free to make use of one of these options:
- Contact our Study Information Centre by phone, chat or email
- Ask for a personal interview with one of our study advisers (utwente.nl/go/sacc)
- Visit one of our representatives at an education fair around the world.
For more information visit utwente.nl/en/education/master/fairs

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01 A top research university
02 Most enterprising university in The Netherlands
03 The only ‘park-like’ campus in The Netherlands
04 Global ambition meets personal approach
05 State-of-the-art research centres and facilities
06 High Tech Human Touch: technology that people and society really need
07 One third of our student population is international

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INTRODUCING THE UNIVERSITY OF TWENTE
HIGH TECH HUMAN TOUCH

Ready to get a Master’s degree and busy scanning the globe for a university offering you the perfect programme and environment? Allow us to introduce an exciting option. The University of Twente offers a wide range of high quality, internationally oriented Master’s programmes. Studying with us will give you excellent international experience and good job opportunities. Our innovative research programmes enjoy worldwide renown. We are highly skilled at connecting people, technology and real-world issues. Our distinct entrepreneurial spirit ensures that the knowledge developed on our beautiful, park-like campus is put to use in commercially viable activities. Welcome to the University of Twente!

HIGH TECH HUMAN TOUCH
The University of Twente, while relatively small in scale, is one of the world’s leading universities. Our tagline, ‘High Tech Human Touch’, reflects how our 10,000 students and 3,000 faculty members engage not only in developing pioneering technologies, but also in combining them with behavioural research, social sciences and economics. This interdisciplinary approach is one factor that makes us stand out from other universities, and makes our graduates the problem-solvers of the future. We like students and staff who have the ambition to make a difference in the real world, using technological insight to tackle the challenges people and societies are facing today. This is why we invest in people and their personal development. As a Master’s student, you will be encouraged at our university to develop an enterprising spirit and to cross boundaries. The interaction between people and technology is an exciting field of research – and we are at its forefront.

DEVELOP YOURSELF ON THREE FRONTS
We are based in a country that enjoys international acclaim for its problem-based learning methods and for training students to analyse and solve practical problems independently, through self-study and self-discipline. Our ‘High Tech Human Touch’ approach is highly innovative. We have structured our programmes to help you develop three complementary profiles: that of a researcher, a designer or an organizer. As a researcher, you will grow by critically assessing existing scientific knowledge and adding to the development of new knowledge. As a designer, you will become skilled in integrating scientific knowledge with the systematic development of new solutions to complex problems. As an organizer, you will become an expert in combining knowledge from various scientific fields with the aim of implementing new solutions in a complex societal environment.

EUROPE’S MOST ENTREPRENEURIAL UNIVERSITY
Since its founding in 1961, the University of Twente has become an international platform for talent, attracting more and more students from across the world. Already recognized as the most entrepreneurial university in our own country, our next step is to become Europe’s most enterpreneurial university. We see entrepreneurship as an effective form of technology transfer, or valorization. Over the past two decades alone, our university activities have led to the creation of about 900 spin-off companies. Thus, while helping students to turn their research into commercially viable enterprises, we are also making a direct contribution to economic growth (see text box, ‘Novel-T©’).
At the University of Twente, we see ourselves as a catalyst for meaningful entrepreneurship. We collaborate with leading multinationals on education and research programmes as well as staff and student exchange.

On our campus, you can participate in weekly innovation and entrepreneurship events. We will help you cultivate your skills and vision, expand your network – or launch your own company. The so-called Novel-T® foundation brings it all together. Novel-T® coordinates all our technology transfer activities and is a powerful regional innovation catalyst. Its aim is to help (high-tech) companies in our area innovate and accelerate their growth – for their own benefit and for the economic development of the region. Novel-T® brings together resources and expertise from government agencies, companies, networks and knowledge institutes. It is a joint initiative of the University of Twente, Saxion University of Applied Sciences, the City of Enschede, the Province of Overijssel and the Twente Region.

NOVELT.COM
When you decide to study abroad, you have lots to prepare. Start your preparations a year in advance for an untroubled stay in the Netherlands. This checklist will give you insight into what to arrange and when:

- Find a study programme
- Check the admission requirements
- Find a scholarship
- Visas and permits
- Get insured
- Arrange housing
- Connect!
- Make the most of your time in the Netherlands

FOR MORE INFORMATION VISIT: WWW.STUDYINHOLLAND.NL
LIVING IN THE NETHERLANDS AND IN ENSCHEDE

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 north-west Europe? And what secrets are there to discover in our university city, Enschede?

UNIVERSITY LIFE, DUTCH STYLE
As many international students will tell you, one of the great benefits of studying in the Netherlands is that it can help you develop an open mind and a more international perspective. We have many thousands of internationals studying and working here. And the Dutch education system is interactive with an exceptional focus on teamwork and independent, proactive thinking.

INTERNATIONAL STUDENT ASSOCIATIONS
All Dutch universities have their own network of student-run associations that bring students together for academic activities, sports and recreation. Three of the larger international ones are active at the University of Twente: AIESEC, AEGEE and the Erasmus Student Network (ESN). UniTe is our own student platform for internationalization and integration. These associations will assist you with everyday situations and help you settle in and make friends.

UTWENTE.NL/GO/ASSOCIATIONS

MOST DUTCH PEOPLE UNDERSTAND ENGLISH
The Netherlands is a small country and home to almost 17 million people. Many European capitals are within easy reach: Brussels is two hours away by train and a short flight from Amsterdam will take you to London, Paris, Madrid or Berlin. Most Dutch people speak, or understand, English. Public transport is well-organized and safe. To travel the Dutch way, of course, get a bicycle (we actually have more bikes than people in the Netherlands). During our introduction days for international students we can help you buy your very own bike.

ENSCHERDE, A TYPICAL STUDENT CITY
The city of Enschede, located in the east of the Netherlands near the German border, has a population of around 158,000 – one third of whom are students. The city boasts colourful weekly markets, bustling shopping streets and well-tended parks – in fact, it is one of the greenest cities in the Netherlands, with a 52-kilometre walking and cycling route winding right through its green belt. But 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. Enschede is home to three higher education institutions: the University of Twente, Saxion University of Applied Sciences and the ArtEZ Institute of the Arts. The centre of student life is undoubtedly the University of Twente’s unique campus.
A GLOBAL NAME IN RESEARCH

Our world today is facing big challenges. Depletion of natural resources, pollution, economic inequality, social and political upheaval. Scientific research has a pivotal role to play in creating conditions that will make life on this planet worth living – both for ourselves and for future generations. At the University of Twente, we have six leading research institutes committed to being part of a more sustainable world.
MESA+ INSTITUTE FOR NANOTECHNOLOGY
The MESA+ Institute for Nanotechnology is one of the world’s largest in its field with a total of 525 researchers working together on cutting-edge research. Our 1250m² state-of-the-art NanoLab offers its users a unique variety of technologies and equipment for developing an almost unlimited number of applications. It is the perfect meeting place for science and business: 40% of our lab space and equipment is used by industrial partners. Nanotechnology makes use of particles 100,000 times thinner than a human hair, enabling rearrangement of structure on an atomic scale. Its potential for electronics, medicine, chemistry and biology is beyond imagination.

UTWENTE.NL/MESAPLUS

MIRA INSTITUTE FOR BIOMEDICAL TECHNOLOGY AND TECHNICAL MEDICINE
The MIRA Institute for Biomedical Technology and Technical Medicine aims at developing new treatments for patients. We work closely with hospitals, businesses and government. MIRA is one of the most important European catalysts in the fields of medical technology, combined fundamental research, applied research and clinical practice. Among other things, we are researching new techniques to help repair damaged bone and skin, drugs that have highly targeted effects, more effective diagnostic techniques and rehabilitation technology. Our approach is based on interdisciplinary research and we work closely with the other University of Twente institutes.

UTWENTE.NL/MIRA

SBE SCIENCE BASED ENGINEERING
New technology serves as the innovation engine in society. The SBE - Institute of Engineering develops and applies science and technology in multidisciplinary systems to the needs of industry and society, to enable a sustainable future. SBE will focus on the initiation, formulation, design and development of technical solutions for current and future societal problems.

UTWENTE.NL/SBE

IGS INSTITUTE FOR INNOVATION AND GOVERNANCE STUDIES
The Institute for Innovation and Governance Studies (IGS) is one of the University of Twente’s largest institutes. Renowned for our interdisciplinary approach, we conduct research in the field of governance and management of technological and social innovation. Core research topics include issues related to coordinating, steering and operating institutions in both the public and private sectors. We look at these issues from a multi-level, multi-actor perspective. At IGS, our aim is to combine scientific excellence with relevance for our stakeholders in the public and private sectors.

UTWENTE.NL/IGS

CTIT INSTITUTE FOR TELEMATICS AND INFORMATION TECHNOLOGY
The CTIT Institute for Telematics and Information Technology is one of the largest academic ICT research institutes in Europe with approximately 450 researchers actively participating in its programmes. Here again, our multidisciplinary approach makes the CTIT an attractive alliance partner. We have an extensive international network of contacts – including businesses from a wide range of industries, other universities and research institutes and governmental organizations.

UTWENTE.NL/CTIT

ITC FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION
As an internationally recognized leading research entity in geospatial sciences, with an emphasis on geo-information science and earth observation ITC is at the forefront of knowledge discovery. About 200 researchers focus on fundamental and problem-solving research, with an eye for those complex global challenges where spatial information can make a real difference. These complex interacting challenges often relate to claims for sufficient and secure food, water, energy, health, land and housing provision that are intensified through climate change and population dynamics. These different claims often lead to conflicts, disasters and non-sustainable development.

UTWENTE.NL/ITC

UNIVERSITY OF NANO GIANTS.
CAMPUS

One of the crown jewels of the University of Twente, without doubt, is our campus. All of our education and research buildings are grouped together here, along with all the facilities needed for some 10,000 students and 2,610 staff to live, work and study together — from lecture halls, libraries and labs to shops, restaurants and sports facilities. Located on 146 hectares of beautifully landscaped and sustainably managed parkland just fifteen minutes by bike from downtown Enschede, it offers you the perfect setting for engaging in your studies, sports, arts, culture, fun and challenging student events. It is a place where exploration meets inspiration. Where professional and personal growth merge.

UNIVERSITY OF CAMPUS VIBES.

FACTS & FIGURES

10,026
STUDENTS

139
POST-MASTER’S STUDENTS

18
CULTURAL SOCIETIES

2,638
INTERNATIONAL STUDENTS

399
PRE-MASTER’S STUDENTS

39
SPORTS SOCIETIES

2,500
STUDENT APARTMENTS

5,320
BACHELOR’S STUDENTS

4,168
MASTER’S STUDENTS

146
HECTARE

45,000
ALUMNI

2,610
EMPLOYEES

MASTER OF SCIENCE DEGREES

MASTER OF SCIENCE DEGREES

10
DID YOU KNOW THAT THE UNIVERSITY OF TWENTE...

✓ is set on a beautiful park-like campus – the only park-like campus in the Netherlands?
✓ is one of 14 Dutch universities recognized and funded by the government of the Netherlands?
✓ provides an internet connection of 1 gigabit per second and a campus-wide wifi network?
✓ lies in the east of the Netherlands, close to the German border and is in the heart of Europe?
✓ is home to MESA+, one of the world’s largest nanotechnology research institutes?
✓ is the most entrepreneurial university in the Netherlands, according to an independent ranking?
✓ is a founding member of the European Consortium of Innovative Universities (eciu.web.ua.pt)?
✓ has strong ties with universities in Germany, Sweden, Poland, China, Indonesia, India and other countries?
✓ is the finish line of the biggest relay race in the world, the ‘Batavierenrace’, which is followed annually by Europe’s largest all-night student party?
Our university was awarded the title of the Most Entrepreneurial University in the Netherlands in 2015. Times Higher Education (THE) has ranked us among the top 200 universities worldwide once again (ranked 153 for the year 2016). According to I-graduate, we’re one of the top ten research institutes worldwide for sport facilities, campus environment, learning spaces and campus buildings. In the QS World University Rankings our position has increased and the university now sits in 179th place (2018). Below you will find a summary of the latest rankings.

**TIMES HIGHER EDUCATION RANKINGS (THE)**
Judges world universities across all core missions: teaching, research, knowledge transfer and international outlook.
*Overall ranking University of Twente for 2016: 153*

**QS WORLD UNIVERSITY RANKINGS**
Looks at over 2,000 universities worldwide and evaluates over 700, ranking the top 400. *Overall ranking University of Twente for 2018: 179*

**QS STARS**
An initiative that gives universities the opportunity to highlight strengths via awarded recognition. *Overall ranking University of Twente for 2018: Five stars (among the best in the world)*

**SHANGHAI RANKING (ARWU)**
Uses six objective indicators to rank world universities. *Overall ranking University of Twente for 2016: 301-400*

**SCIENCEWORKS & ELSEVIER VALORIZATION RANKING 2015**
Maps how universities utilize their scientific and technological knowledge to create economic and social benefits. *Overall ranking University of Twente for 2015: 1st place*

**MORE DETAILS:** [UTWENTE.NL/GO/RANKINGS](#)
At the University of Twente, we offer 20 Bachelor’s and 35 Master’s degrees. Most of our Master’s programmes are English-taught. Programmes that include the ‘4TU’ logo offer you the option of taking courses at any of the four leading technology universities in the Netherlands belonging to the so-called 4TU.Federation (www.4tu.nl): Delft University of Technology, Eindhoven University of Technology, Wageningen University and the University of Twente.

For more details on additional opportunities, such as joint degrees or student exchange options, go to page 32.

ACCREDITATION
Almost all of our Master’s programmes lead to the title Master of Science and each one is accredited by the Accreditation Organization of the Netherlands and Flanders (NVAO). The NVAO was established by the Dutch and Flemish governments as an independent accreditation organization tasked with providing an expert and objective assessment of the quality of higher education in Flanders and the Netherlands. Our Master’s in Business Administration has an additional accreditation by EPAS, an international accreditation system operated by EFMD. It aims to evaluate the quality of business and/or management programmes with an international perspective, accrediting those that meet its standards. Our Master’s in European Studies and Public Administration received an additional accreditation by EAPAA, the European Association for Public Administration Accreditation. The EAPAA was founded to develop and maintain a system for the voluntary accreditation of academic public administration programmes in Europe. The international recognition by peers is an important assurance for the quality of a degree programme.
APPLIED MATHEMATICS

A Master’s degree in Applied Mathematics will open many doors for you. Applied Mathematics focuses on mathematical modelling and analysis. It deals with tools and techniques, but also involves a high degree of formal reasoning and abstraction as well as knowledge of the fields of application. We also encourage international internships.

Are you interested in a specific area of application, such as health, aerospace engineering or economics? Or would you prefer a more theoretical research topic? Whatever your wishes, you will find plenty of scope to tailor this programme to your own wishes, gaining access to many career opportunities. In our technology-dependent society, commercial and governmental organizations have a growing need for professionals with an up-to-date background in applied mathematics at an academic level. Applied mathematicians are also in high demand in the academic world.

FACTS
DEGREE
MASTER OF SCIENCE
MODE OF STUDY
FULL-TIME
CREDITS
120 EC
PROGRAMME DURATION
2 YEARS
STARTS
SEPTEMBER OR FEBRUARY
LANGUAGE
ENGLISH
SPECIALIZATIONS
✓ MATHEMATICAL SYSTEMS THEORY, APPLIED ANALYSIS AND COMPUTATIONAL SCIENCE
✓ OPERATIONS RESEARCH
FIND OUT MORE AT UTWENTE.NL/GO/AM

APPLIED PHYSICS

Our Applied Physics Master’s programme has its roots in the fundamental truths and laws of nature that govern the world around us. Experiments are our gateway to discovering more about the world. This programme focuses on using scientific principles in practical devices and systems and also on the application of physics in other fields.

The programme will expand your knowledge of physics as a whole, while giving you the opportunity to choose one of three specializations: Fluid Physics, which is all about using the laws of nature to describe phenomena in liquids and gases, such as a falling drop or the emergence of a wave; Optics & Biophysics, which centres on research into the properties of light and laser technologies and life processes; and Materials Physics, which aims at understanding and manipulating the physical properties of materials to discover new features – and ultimately to use those features for developing new devices.

FACTS
DEGREE
MASTER OF SCIENCE
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FULL-TIME
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LANGUAGE
ENGLISH
SPECIALIZATIONS
✓ FLUID PHYSICS
✓ OPTICS & BIOPHYSICS
✓ MATERIALS PHYSICS
FIND OUT MORE AT UTWENTE.NL/GO/APH
BIOMEDICAL ENGINEERING

Do you want to develop new technologies for healthcare? Are you interested in rehabilitation robots, artificial organs, medical imaging and prosthetics? Then our Master’s programme in Biomedical Engineering is the right choice for you.

This engineering programme trains students to research, design and develop innovative products and processes that will benefit the healthcare sector. You will develop medical innovations that really contribute to better care. This dynamic, interdisciplinary field combines engineering with natural and life sciences, such as biology, nanotechnology, physics, electrical engineering, chemistry and mechanical engineering. During the programme you can specialize in one of three tracks: techniques for visualizing and interpreting the processes in cells and bodies (based on optics, lab-on-a-chip and other in-vitro diagnostics, photo-acoustics, ultrasound, radiation and magnetism); the development of technologies that restore function to diseased and damaged organs and tissues; or the restoration of nervous and motor system function.

BUSINESS ADMINISTRATION

In the Master’s programme in Business Administration you will learn how to help organizations solve complex problems and improve their business. You will work on these solutions in a challenging, high tech environment, combining state-of-the-art theory with practical application.

Important characteristics of this programme include the combination of academic rigour and practical relevance, the cross-disciplinary perspective and our High Tech Human Touch approach. You will gain highly relevant core knowledge across the full spectrum of the business world, while also developing focused expertise in your chosen specialization. On top of that you will have the chance to gain an extra international experience in one of our track-specific Double Degrees for which we collaborate among others with TU Berlin and Lappeenranta university of Technology. Are you interested in working on complex business problems in a challenging, innovative and technical environment? Then our multidisciplinary, highly entrepreneurial and internationally oriented Master’s programme in Business Administration is perfect for you.
Our Master’s programme in Business Information Technology focuses on information systems deployed in business environments. You will learn to analyse the IT needs of a business organization and to determine how IT can support a profit-making strategy. Having acquired in-depth knowledge of information technology, you will learn to design and implement new information systems that will satisfy business requirements.

After your graduation you will be able to function as an important point of contact between the various departments within a company. You will be a highly valued professional with many opportunities on the job market. For instance, you might work as an enterprise architect, an IT manager or a business analyst. Alternatively, you may decide to use your innovation skills in your own company by becoming an entrepreneur.

Chemical engineers are creative problem solvers who use their scientific and technical expertise to develop new chemical processes, materials and products for a wide range of applications. As a chemical engineer, you will not only be at home in chemistry, materials science and process technology; you will also be well-versed in more physics-related areas, such as fluid dynamics and thermodynamics.

In our Master’s programme Chemical Engineering, you will learn to combine knowledge from different fields in order to develop and implement processes, products and materials. At the University of Twente, you can choose one of two specializations: Chemical & Process Engineering, in which you will focus on designing complex processes that deliver optimum performance in terms of technology, safety, economy, environment and meeting society’s needs; and Molecular & Materials Engineering, which focuses on the design, manufacturing, characterization and application of new materials with high-tech features.
CIVIL ENGINEERING & MANAGEMENT

Our Master’s programme in Civil Engineering and Management is the leading programme of its kind in the Netherlands. It focuses on both the technical and non-technical aspects of planning, designing, constructing and servicing civil engineering projects and systems. High-speed rail travel, dyke improvements and innovative beach nourishment are all technologically feasible nowadays.

However, technology is not the only determining factor. Many other factors need to be taken into account early in the planning phase of real estate and infrastructure projects like these, such as policy making, environmental impact, budgeting and project management. This calls for engineers who demonstrate mastery of the development process and who can oversee, analyse and predict all aspects of the design and implementation of such projects. Our programme will train you to become an engineering professional who brings technical and non-technical expertise to major civil engineering projects.

COMMUNICATION STUDIES

Organizations around the globe rely on effective communication to be successful. They need academically trained communication experts who combine in-depth knowledge of communication theory with research skills and a practical, go-getter attitude to solving problems with the latest technologies.

Our Master’s programme in Communication Studies combines academic rigour and practical relevance to train you to be just such an expert. The programme covers the most relevant themes for communication professionals in three specializations: Corporate Communication; Marketing Communication; and Technical Communication. This Master’s programme is directly related to our general research in the field of Communication Science, with a special focus on the relationship between communication and technology and the organizational context of communication – all with an international scope.

When you graduate, you will be a highly trained communication professional with the insight and creativity to handle all kinds of communication issues.
Our society is becoming a smart society with humans, organizations and systems increasingly relying on networked digital technology. Our Master’s programme 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 software, cyber-physical systems, data science or cybersecurity and privacy. You will also consider specific application areas, such as energy or health and well-being. The University of Twente is considered a global leader in Computer Science research, with strong research pillars in Dependable Networked Systems and Human Centred Computing. In this Master’s programme you will be taught by and work closely with the researchers involved. As a graduate, you will have excellent career prospects. For example, you may become a software developer, an ICT security specialist, a data scientist, a computer science researcher, or the chief technology officer of your own ICT start-up.

The construction industry is changing rapidly. New techniques, shifting roles, complicated logistics and globalization are significantly impacting the nature of construction projects. Today’s complex and multidisciplinary projects, often set in a dynamic environment, require a new breed of engineers with the expertise to combine engineering knowledge with management skills.

Our Master’s programme in Construction Management and Engineering can train you to be just such an engineer: a hands-on expert, equipped to combine the technical aspects of civil engineering projects with non-technical aspects. This broad programme uses cutting-edge technology to bring together individual technical approaches and processes shaped by governance issues, societal trends and management methodologies. We developed this programme in close association with the construction industry; it is both project-based and geared to process and design.
EDUCATIONAL SCIENCE & TECHNOLOGY

If you’re fascinated by learning, education and training, yet you do not intend to become a teacher, you should consider our Master’s programme in Educational Science and Technology (EST).

It focuses on the design and evaluation of teaching and learning programmes in schools and organizations. The scope is wide: from designing learning materials for young children to talent and leadership development. As an EST student, you will take a high tech approach to your studies, while never losing sight of the human dimension. You will learn all about theories of learning and assessment, instructional design and implementation, theoretical foundations and practical applications of (technology-based) learning environments and interventions. You will also discover how to design different learning scenarios and curricula, and how to translate your designs into recommendations and solutions to practical problems.

ELECTRICAL ENGINEERING

Are you eager to develop new methods and technologies for high tech, electronics-based systems? Have you ever wondered how small ground or aerial robots might assist rescue workers? Or are you interested in using lab-on-a-chip technologies to explore Alzheimer’s disease? In our Master’s programme in Electrical Engineering you will learn how to use modern technology to enhance, accelerate or scale down electronics-based systems.

The programme focuses on information systems and technology; electrical power and energy engineering will only be addressed on the side when we cover robotics and mechatronics. Thanks to the various specializations we offer, you can tailor the programme to your own personal interests. In 2016 the Master’s Keuzegids, an independent guide that compares Master’s programmes in the Netherlands, awarded our programme a special seal of quality, ranking it as the best in the ‘Electrical Engineering’ category.

FACTS

EDUCATIONAL SCIENCE & TECHNOLOGY

- DEGREE: MASTER OF SCIENCE
- MODE OF STUDY: FULL-TIME AND PART-TIME
- CREDITS: 60 EC
- PROGRAMME DURATION: 1 YEAR
- STARTS: SEPTEMBER OR FEBRUARY
- LANGUAGE: ENGLISH
- FIND OUT MORE AT UTWENTE.NL/GO/EST

ELECTRICAL ENGINEERING

- DEGREE: MASTER OF SCIENCE
- MODE OF STUDY: FULL-TIME
- CREDITS: 120 EC
- PROGRAMME DURATION: 2 YEARS
- STARTS: SEPTEMBER OR FEBRUARY
- LANGUAGE: ENGLISH
- FIND OUT MORE AT UTWENTE.NL/GO/EE
EMBEDDED SYSTEMS

Is it possible to design an exoskeleton controlled by your nervous system? Can we prove that an airbag inflates in time? How far are we in embedded software for maximizing the energy efficiency of a power grid?

The Master’s programme in Embedded Systems focuses on the combination of hardware (electrical engineering) and software (computer science) for applications ranging from pacemakers, smart phones, anti-lock brakes on cars to set-top boxes for digital TVs and Ethernet switches for high-speed networking. You will focus on topics such as control engineering, integrated circuit design, computer architecture, communication networks, real-time operating systems and software engineering. This is a 4TU programme, which means you can take relevant courses at four Dutch universities of technology. The exponential increase in computing power, ubiquitous connectivity and the convergence of technology have resulted in hardware/software systems being embedded in everyday products and places. It goes without saying that embedded systems engineers have excellent career prospects.

ENVIRONMENTAL & ENERGY MANAGEMENT

Our Master’s programme in Environmental and Energy Management (MEEM) is a one-year, full-time programme offering three specializations: Water Governance; Environmental Management; and Energy Management.

The aim of the MEEM programme is to equip future decision makers in companies, government and non-governmental organizations. In this programme you will learn how to analyse and act in a sustainable, proactive way when dealing with policy, production and resource utilization. The overall goal is to broaden your knowledge and skills, thereby contributing to capacity building in the field of sustainable development. As a graduate, you will be able to develop, implement, monitor and evaluate water, environmental and energy management programmes, policies and projects.
EUROPEAN STUDIES

Managing Europe is quite a task. Our one-year Master’s programme in (Global and) European Studies will give you the expertise needed to operate in this fascinating environment, in which various government levels convene.

Brussels is not the only place in need of experts who understand Europe and the global world. National governments, private firms, the non-profit sector and NGOs also require professionals who know how Europe operates, both internally and globally. In this programme, you will study the interactions between national, European and international bodies, and how they respond to complex global challenges. Our programme has a stronger focus on public administration and policy than most humanities-based European Studies programmes. This makes it an ideal course for preparing yourself for a world in which we must balance technological advances with human values. Think, for example, of policies for self-driving cars, Internet privacy or permits for nanotechnology applications.

GEO-INFORMATION SCIENCE & EARTH OBSERVATION

Did you know that 60 to 80% of all political, economic and private decisions are space-oriented? Are you keen to explore how geo-information can help people make better decisions in every field?

Geo-information is a rapidly growing industry worldwide. Geographical information systems and remote sensing tools can help solve real-world problems and complex issues related to healthcare, food security, climate, water, urban planning, security and land scarcity. The range of possible practical applications is vast. There is a growing need for skilled professionals with the expertise to effectively manage the information and opportunities generated by these new technologies. A degree in Geo-Information Science and Earth Observation will not only equip you with the requisite skills and expertise, it will also enable you to put them to excellent use in an exciting career.
Today’s societies require more and more geographical information. Think of physical planning, analyzing the spread of epidemic diseases, risk management, navigation systems, location based services, movement analysis, augmented reality, increasing use of maps and volunteered geographical information.

Our GIMA course offers a comprehensive Master’s programme, focusing on the management and application of geographical information from a scientific perspective. Two additional aspects contribute to the uniqueness of the GIMA programme: GIMA is a joint venture involving four renowned Dutch universities, Utrecht, Delft, Twente and Wageningen; and GIMA 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.

Do you want to know all about new health technologies, their impact and how they can best be used? Would you like to predict trends in healthcare, or to optimize policy, management and healthcare procedures? If so, the Master’s programme Health Sciences at the University of Twente may be the perfect choice for you. The programme focusses on the use of technology and innovation for improving healthcare.

During the Health Sciences programme you will learn to analyse problems from different perspectives. You will become familiar with using different models and (big data) analysis methods and with implementing and evaluating innovative improvements. You will gain insight in healthcare for individuals, organizational processes and the effects of policies on national healthcare.

There is a great need for health scientists who, with a keen understanding of technology, are able to make sharp analyses and offer solutions. With this degree, you can work at hospitals, insurance companies, in home care, for consultancy agencies, at government level and in medical companies.
INDUSTRIAL DESIGN ENGINEERING

Designing new products and improving existing ones is an iterative process. Our Master’s programme in Industrial Design Engineering will familiarise you with the ins and outs of the world of industrial design.

In this programme, you will get to know the backgrounds, processes and theory needed to design new products and services. You will be able to anticipate future trends and adjust your products to market demands. The programme has a strong academic focus, with an emphasis on design methodologies and problem-solving strategies underpinned by a solid theoretical foundation. You will be allowed to pursue your own personal preferences by researching specific topics. All in all, this programme will equip you with a professional attitude and prepare you for an exciting career.

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### Facts

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<thead>
<tr>
<th><strong>Degree</strong></th>
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<tr>
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<td><strong>Specializations</strong></td>
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</tbody>
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Find out more at utwente.nl/go/ide

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INDUSTRIAL ENGINEERING & MANAGEMENT

In our globalised world, communication depends heavily on highly complex information technology. This is making the job of managing and controlling business more and more complicated. In our Master’s programme in Industrial Engineering and Management, we will train you to be an engineer who can tackle these kinds of issues.

The programme will equip you to develop, analyse and optimize organizational processes and management from a technological perspective. Your aim will be to improve productivity, product quality and labour quality. For example, we use simulation models to thoroughly and safely test new management approaches before we put them into practice. Our research staff have excellent contacts with businesses and healthcare organizations. This means you will have plenty of real-world opportunities to pursue your graduation project, giving you outstanding career prospects. Many of our students find a job before graduation.

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<td>Financial Engineering &amp; Management, Healthcare Technology &amp; Management, Production &amp; Logistics Management</td>
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</table>

Find out more at utwente.nl/go/iem
NETWORKED SYSTEMS HAVE become vital to our smart society. The internet connects huge numbers of humans and devices worldwide, providing countless innovative services. The introduction of the Internet of Things means phenomena in our physical world will also increasingly be sensed and/or controlled in an integrated manner. Because these networks are so pervasive, it is extremely important that they are dependable and secure.

Our Master’s programme in Internet Science & Technology examines all aspects of networking, from technology to application. You will study the design and analysis of the internet, mobile and wireless networks, as well as emerging and embedded networks, including car-to-car, industrial control and health networks. You will cover novel developments, such as cloud and social networks and the Internet of Things, gaining in-depth understanding of the dependability and security of networks. Possible careers include that of a network architect, a network security specialist or a network scientist.

INTERNET SCIENCE & TECHNOLOGY

Are you eager to work on the smartest and best interactive technologies while also engaging with customers and end users? Are you as excited about computer science, interactive systems or electrical engineering as you are about analysing human behaviour? Are you passionate about developing technological solutions to fulfil the real needs and wants of people and society? Then our new Master’s programme Interaction Technology may be the right choice for you. This unique programme, which evolved from our Human Media Interaction (HMI) Master’s, will take you to the cutting edge of science and technology. Depending on your talent and preferences, it will equip you for a role as either an entrepreneur, a researcher or a designer. As a graduate, you might launch a social robot or Internet of Things startup, join a high-tech company as innovator, or lead research in new interactive tech solutions. You will have what it takes to recognize needs and opportunities, develop outstanding and meaningful interactive solutions and get them to the people who need them.

This programme is also available as part of a double degree offered by the EIT Digital Master School programme (masterschool.eitdigital.eu) in Human Computer Interaction and Design.

INTERNET SCIENCE

& TECHNOLOGY

Networked systems have become vital to our smart society. The internet connects huge numbers of humans and devices worldwide, providing countless innovative services. The introduction of the Internet of Things means phenomena in our physical world will also increasingly be sensed and/or controlled in an integrated manner. Because these networks are so pervasive, it is extremely important that they are dependable and secure.

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MECHANICAL ENGINEERING

Mechanical engineers focus on the design and analysis of machinery, structures and products, as well as production processes. They place high tech solutions in a human context – from large-scale industrial installations to intricate mechanisms in the field of medicine. They are involved in the entire process, from generating the initial idea to its design and analysis, and onward to the development of products, processes and systems.

In our Master’s programme in Mechanical Engineering you get to choose one of three competence profiles: Research & Development; Design and Construction; or Organization & Management. Your competence profile, combined with the in-depth training you receive in your specialization, will give you a head start on the labour market, opening up a wealth of opportunities all over the world.

METHODOLOGY & STATISTICS FOR THE BEHAVIOURAL, BIOMEDICAL & SOCIAL SCIENCES

Methods and statistics are an important component of behavioural, social and biomedical research. The main goal of our Master’s programme in Methodology and Statistics for the Behavioural, Biomedical & Social Sciences is to equip students for developing, evaluating and applying methodological and statistical approaches that are relevant for behavioural, social and biomedical sciences.

This two-year (highly selective) Master’s programme is a unique joint effort of the department of Research Methodology, Measurement and Data Analysis of the University of Twente, the department of Methods and Statistics of the University of Utrecht, and the department of Biostatistics of the University Medical Centre Utrecht. The programme will prepare you for an academic or professional career in fields in which essential data-driven solutions are required, related to methodological and statistical work. Examples include the academic world, research institutes and government organizations.
NANOTECHNOLOGY

Nanotechnology is a multidisciplinary research field that deals with dimensions and tolerances of less than 100 nanometres, focusing on the manipulation of individual atoms and molecules. At nanoscale, the physical and chemical properties of a material undergo quantitative and qualitative changes. Nanotechnology is all about studying these changes with a view to designing and developing functional materials, structures, devices and systems. Nanotechnology combines traditional disciplines, such as physics, chemistry, electrical engineering and biology.

Our Master’s programme Nanotechnology is also highly multidisciplinary. At the University of Twente, you can specialize in Solid State Matter, (Bio)Molecular Matter or Soft Matter combined with Systems. However, before diving into the research area of your choice, you will expand your knowledge of the fabrication and characterization of nanomaterials as well as the design of nanodevices. The programme has a strong research component, providing you with the perfect preparation for a research career. As a student, you will have access to world-class labs and state-of-the art facilities, thanks to our close collaboration with the internationally renowned MESA+ Institute.

PHILOSOPHY OF SCIENCE, TECHNOLOGY & SOCIETY

Our two-year Master’s programme in Philosophy of Science, Technology & Society (PSTS) focuses on analysing and evaluating the role of technology in a broader social context. PSTS is the premier Master’s programme for learning how to critically analyse and assess the impact of technology on society.

The programme is characterized by its empirical approach. Rather than focusing only on the philosophical tradition, or seeking to understand technology in general, you will analyse and evaluate specific technologies and their impact on society. Philosophical reflection on technology is the hallmark of the PSTS programme. This makes it an ideal choice not only for philosophy and social science students, but also for students with a technical background. This programme also has a strong international orientation: several of our lecturers come from abroad and the programme attracts students from all around the world.
PSYCHOLOGY

In our Master’s programme in Psychology, you will not only examine how people behave, but also acquire the knowledge and understanding of psychological theories needed to solve real-life problems.

You will design effective and workable solutions for individuals or groups, using technological applications where possible. These might include computer games that enhance learning skills, online healthcare interventions or iPhone apps for reporting neighbourhood crime. Our Master’s in Psychology is unique due to the applied nature of our five specializations. The position and sector you will work in on completing this Master’s course will partly depend on your specialization. Psychologists are perhaps most closely associated with the healthcare profession, but you may also find yourself working as a consultant, project manager or coach in business, education, science or the government sector.

PUBLIC ADMINISTRATION

Our Master’s programme in Public Administration will equip you to tackle today’s most pressing political and administrative challenges, while also preparing you to face the issues of tomorrow.

We live in a complex and constantly changing society and our world is facing major problems: an ecological crisis, migration issues, rapid shifts in technology and public safety concerns. This Master’s programme will provide you with the skills and conceptual tools you will need to engage in descriptive, explanatory and normative research and analysis of the political and administrative issues of our time. The programme takes a comparative approach, looking at governance, policy-making and management practices. In elective courses and your thesis work you specialize in a particular field of your own interest, such as health, city innovation, (cyber) security, sustainability, and others.
If you have a Bachelor’s degree in a technical field and are interested in sharing your knowledge with young people, our Dutch-taught Master’s programme in Science Education & Communication is the programme for you.

You will learn how to make scientific and technical knowledge accessible through practical assignments, simulations and other methods. Throughout the Science Education & Communication programme, you will be trained to become a top-notch secondary school teacher, a vital link between science, technology and society. You will design complex tasks for students and supervise and evaluate them, while encouraging them to apply their knowledge to novel situations. You will use your academic background to challenge, inspire and enthuse your students and to promote solid scientific and technical thinking.

Major multi-level spatial problems, also known as wicked problems, require multidisciplinary solutions and broad thinking. The Master’s programme in Spatial Engineering prepares you to address these problems by combining technical and socio-economic knowledge with a strong foundation in spatial data analysis and modelling. Think, for example, of the distribution of limited natural resources, of water, energy or food security, of catastrophic consequences of natural and man-made disasters, or of the unplanned development of mega-cities.

Do you have a strong affinity with technology and systems and are you inspired by large-scale, complex challenges? Are you a creative thinker willing and able to look beyond the obvious solutions? Are you eager to engage with what is happening in the world and to use your skills to make our planet more sustainable? If so, the Master’s programme in Spatial Engineering at the University of Twente may be just up your street.

### FACTS

**DEGREE**  
MASTER OF SCIENCE

**MODE OF STUDY**  
FULL-TIME OR PART-TIME

**CREDITS**  
120 EC

**PROGRAMME DURATION**  
2 YEARS

**STARTS**  
SEPTEMBER OR FEBRUARY

**LANGUAGE**  
DUTCH

**SPECIALIZATIONS**  
SECONDARY EDUCATION TEACHER IN ONE OF THE FOLLOWING SUBJECTS: CHEMISTRY, PHYSICS, MATHEMATICS, COMPUTER SCIENCE OR RESEARCH & DESIGN

FIND OUT MORE AT UTWENTE.NL/GO/SEC

### FACTS

**DEGREE**  
MASTER OF SCIENCE

**MODE OF STUDY**  
FULL-TIME

**CREDITS**  
120 EC

**PROGRAMME DURATION**  
2 YEARS

**STARTS**  
SEPTEMBER

**LANGUAGE**  
ENGLISH

FIND OUT MORE AT UTWENTE.NL/GO/SE

EXPECTED TO START IN 2018: Spatial Engineering is a new Master’s programme. The University of Twente is still in the process of having the programme officially accredited and registered. We expect to have the programme officially accredited and registered in early 2018!
SUSTAINABLE ENERGY TECHNOLOGY

The Master’s programme Sustainable Energy Technology invites you to gain in-depth understanding of (energy) technology and engineering and to supplement that with knowledge and skills related to entrepreneurship and innovation.

Building on this broad foundation, you will rise above technology per se to play a role as enabler, leader and game changer in the transition towards sustainable energy systems. The energy challenges we face today call for professionals who are as skilful in engineering as they are in business development and innovation. The SET programme will prepare you for this broader, more entrepreneurial role. You will be trained in chemical, electrical, process and mechanical engineering, as well as economics, business development, innovation, supply chain management and societal change. You will become an authority in implementing technology-driven change in energy markets worldwide.

SYSTEMS & CONTROL

In today’s society, we rely increasingly on intelligent devices to assist us, making our lives easier and creating a new human habitat. Think robots, drones, smart cars, high speed trains, smart factories, (biomedical) imaging devices, high tech rehabilitation devices and so on.

In our Master’s programme in Systems & Control you will focus on the design and realization of these devices by integrating multiple disciplines: mathematics, computer science, and electrical, mechanical and control engineering. In order to be able to accurately predict and control system behaviour, you will learn to develop and use physical and mathematical system models, numerical methods, such as finite elements, and workable system control strategies. You will realize examples of these devices in hardware to prove the validity of our approach. The knowledge you acquire will be highly useful in many different fields, from transport to robotics, automation, production and machining equipment and (biomedical) equipment.
TEACHING IN SOCIAL SCIENCES

Are you interested in becoming a qualified teacher after having obtained a Bachelor’s or Master’s degree in European Studies, Public Administration, Communication, Psychology or a similar discipline?

If you are, consider our Master’s programme Teaching in Social Sciences. This Dutch-taught programme brings together theory and practice. One day you will be attending lectures and tutorials, the next you will be teaching under supervision at a secondary school. Throughout the programme you will learn how to interact with your students and to help them learn as effectively as possible.

This small-scale programme takes a personal approach. You will receive individual supervision, while benefiting from plenty of support from fellow students. You will also learn a great deal from working and studying alongside students of all ages, each with their own knowledge and experience to share.

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TECHNICAL MEDICINE

Healthcare is rapidly changing and gaining complexity. The use of complex technology in healthcare is increasing. Healthcare today calls for professionals with a solid scientific, medical and engineering background combined. Such multidisciplinary experts will be better equipped to treat their patients. In our Master’s programme Technical Medicine, you can become one of these experts. The programme integrates the medical and technical domains.

In this programme, you will become a professional with a unique technical-medical perspective and the ability to apply innovative diagnostic and treatment solutions for your patients. The Technical Medicine programme was designed at the University of Twente and was the first in the world. Since it was launched, Technical Medicine has gained recognition as a valuable new discipline in Dutch healthcare.

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TECHNICAL MEDICINE

**FACTS**

- **DEGREE**: MASTER OF SCIENCE
- **MODE OF STUDY**: FULL-TIME
- **CREDITS**: 180 EC
- **PROGRAMME DURATION**: 3 YEARS
- **STARTS**: SEPTEMBER OR FEBRUARY
- **LANGUAGE**: DUTCH
- **SPECIALIZATIONS**:
  - MEDICAL IMAGING & INTERVENTIONS
  - MEDICAL SENSING & STIMULATION

FIND OUT MORE AT: UTWENTE.NL/GO/TM

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TEACHING IN SOCIAL SCIENCES

**FACTS**

- **DEGREE**: MASTER OF SCIENCE
- **MODE OF STUDY**: FULL-TIME OR PART-TIME
- **CREDITS**: 120 EC
- **PROGRAMME DURATION**: 2 YEARS OR 1 YEAR (WITH RELEVANT MASTER’S DEGREE)
- **STARTS**: SEPTEMBER OR FEBRUARY
- **LANGUAGE**: DUTCH
- **SPECIALIZATIONS**:
  - SECONDARY EDUCATION
  - SOCIAL SCIENCE TEACHER

FIND OUT MORE AT: UTWENTE.NL/GO/LVHOM
Our Master’s programme in Water Technology is offered jointly by three Dutch universities: Wageningen University, University of Groningen and University of Twente. The actual education is provided at Wetsus Academy, European centre of excellence for sustainable water technology, WaterCampus Leeuwarden.

Water (process) technology experts are eagerly seeking breakthroughs – not only to facilitate water exports, but also to solve global water-related threats and challenges in society. Our combined technological approach, based on state-of-the-art science and technology, will equip you to contribute to many different solutions in business and society, with a worldwide impact on water demand and usage. Your application for this programme will be handled by Wageningen University, but you will be registered at the other two universities as well. After successfully completing this Master’s programme, you will receive one joint Master of Science degree in Water Technology issued by all three universities.

WATER TECHNOLOGY

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**FIND OUT MORE AT UTWENTE.NL/GO/WATER**
In addition to our regular Master’s programmes, we offer a variety of complementary options, such as joint degree programmes and student exchange possibilities. Read all about these opportunities on the following pages.

**JOINT, DOUBLE OR MULTIPLE**
If you are interested in experiencing different cultures and academic approaches, consider our joint programmes. Leading to a joint, double or multiple degree, they offer you an integrated curriculum and are coordinated and offered jointly with prestigious higher education institutes around the globe.

**JOINT DEGREE**
A joint degree is awarded after successful completion of a joint programme. It is a single diploma awarded by at least two higher education institutions offering an integrated programme and it is officially recognized in the countries in which the awarding institutions are located.

**DOUBLE DEGREE**
Unlike a joint degree, a double degree consists of two different diplomas and involves taking two different programmes, either at the same institution or at separate ones (sometimes in different countries). It is officially recognized in the countries in which the degree awarding institutions are located. These joint programmes usually take more time than a standard Master’s programme, but less than two separate degree courses.

**MULTIPLE DEGREE**
A multiple degree consists of separate degrees awarded to students who successfully complete a joint programme offered by two or more higher education institutions.

**EXCHANGE**
The University of Twente has student exchange agreements with universities around the world. If you would like to join us as an exchange student, make sure your home university has an exchange agreement with the University of Twente before applying. Our Exchange Study Packages are a set of balanced, coherent, well-structured and comprehensive courses at an academic level, taken in the final year of a Bachelor’s programme. Simply apply for a package that suits your academic background and interest to be assured of a well-balanced exchange programme of 30 credits (EC). Most packages are accessible to students who have successfully completed the first two years of their Bachelor’s programme. Another option may be to do an internship or research assignment with us.

[UTWENTE.NL/GO/EXCHANGE](http://UTWENTE.NL/GO/EXCHANGE)
## AN OVERVIEW OF JOINT AND DOUBLE DEGREE PROGRAMMES

### MASTER’S PROGRAMMES

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<td>CHEMICAL ENGINEERING</td>
<td>INSTITUT TEKNOLOGI BANDUNG (INDONESIA), UNIVERSITAS DIPONEGORO (INDONESIA)</td>
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<td>KWAAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY (KNUST) (GHANA)</td>
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<td>INTERACTION TECHNOLOGY</td>
<td>TH ROYAL INSTITUTE OF TECHNOLOGY (SWEDEN), AALTO UNIVERSITY (FINLAND) AND UNIVERSITY OF PARIS-SUD (FRANCE)</td>
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<td>WATER TECHNOLOGY</td>
<td>WAGENINGEN UNIVERSITY AND UNIVERSITY OF GRONINGEN (THE NETHERLANDS)</td>
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POSTGRADUATE OPPORTUNITIES
TWENTE GRADUATE SCHOOL OFFERS PHD AND PDEng PROGRAMMES

At the University of Twente, we offer you a wealth of postgraduate opportunities. The Twente Graduate School (TGS) offers two main directions: a PhD programme and a PDEng programme. We also offer executive education and provide an impressive network for entrepreneurs: VentureLab Twente supports start-up businesses and offers a highly appreciated programme for growth acceleration.

PHD PROGRAMMES

A PhD programme at Twente Graduate School gives you the opportunity to immerse yourself in high-impact research projects across a variety of key research areas at the University of Twente. Within the TGS framework, you can follow structured PhD programmes offered by our renowned research institutes and faculties, benefiting from the knowledge and experience of their leading researchers.

This involves spending four years studying a particular research area in-depth at one of our research institutes. Part of this process will be writing your PhD thesis, which you will present and defend in public at the end of the programme. When you successfully obtain your PhD, you will be awarded the title of Doctor (Dr). The PhD research programmes each cover a maximum of six years; usually, the PhD phase is four years, during which you take at least 30 credits of PhD courses. These cover academic skills and career development, in-depth and wide-ranging courses, such as science communication, philosophy and ethics of technology, as well as valorization and entrepreneurship.

You can also integrate your Master’s and PhD programmes through our MSc+PhD trajectory. This is a research route through one of our accredited one- or two-year Master’s programmes, followed by the PhD phase. Typically, you will work on your PhD research topic or proposal during the last part of the Master’s programmes. An extracurricular Research Honours programme can also be integrated. Our PhD programmes are clustered according to topic in the TGS Graduate Schools. Within a cluster, you can create your own tailored trajectory, in consultation with your PhD supervisor.

UTWENTE.NL/GO/PHD
PHD VACANCIES
Students who have not done an integrated MSc+PhD trajectory can also enter our PhD programme. Such PhD candidates are generally recruited and given a staff appointment. We do not have a formalized admissions procedure for PhD programmes, neither is there an annual deadline for admissions. Positions are announced in the jobs section of our website. Alternatively, some PhD researchers come to the Netherlands with private funding or an international scholarship. If you have a research proposal that matches the research aims of our university and have already secured the necessary funding, we are interested in hearing from you.

NANOTECHNOLOGY
(MESA+ GRADUATE SCHOOL)
Associated UT Master’s programmes for MSc+PhD routes: Nanotechnology, Applied Physics, Chemical Engineering and Electrical Engineering. Individual routes via other (technical) Master’s programmes are also possible, such as Biomedical Engineering, Applied Mathematics and Sustainable Energy Technology.

BIOMEDICAL ENGINEERING
(MIRA GRADUATE SCHOOL)
Associated UT Master’s programmes for MSc+PhD routes: Biomedical Engineering, Technical Medicine, Health Sciences, Mechanical Engineering and Electrical Engineering. Individual routes via other (technical) Master’s programmes are also possible, such as Chemical Engineering, Applied Mathematics and Applied Physics.

SCIENCE-BASED ENGINEERING
(SBE GRADUATE SCHOOL AT THE FACULTY OF ENGINEERING TECHNOLOGY)
Associated UT Master’s programmes for MSc+PhD routes: Civil Engineering & Management, Construction Management & Engineering, Industrial Design Engineering, Sustainable Energy and Technology, and Mechanical Engineering.

INFORMATION TECHNOLOGY & COMMUNICATION
(CTIT GRADUATE SCHOOL)

SOCIAL SCIENCES, INNOVATION & GOVERNANCE
(IGS GRADUATE SCHOOL)
Associated UT Master’s programmes for MSc+PhD routes: all UT’s one-year behavioural and social science programmes, MSc in Business Administration and Public Administration, but also Construction Management & Engineering, Water Management and Philosophy of Science, Technology and Society.

SPACE FOR GLOBAL DEVELOPMENT
(ITC GRADUATE SCHOOL)
Associated Master’s programmes for MSc+PhD routes: Geo-Information Science and Earth Observation. Individual routes are also possible via a number of other UT Master’s programmes.

ETHICS OF TECHNOLOGY
(4TU.ETHICS GRADUATE SCHOOL)
Associated UT Master’s programmes for MSc+PhD routes: Philosophy of Science and Technology Studies, via 4TU.Ethics of Technology Centre.

COMPUTATIONAL SCIENCE & ENGINEERING GRADUATE SCHOOL
Associated UT Master’s programmes for MSc+PhD routes: Applied Mathematics, Applied Physics, Chemical Engineering and Mechanical Engineering.
The other option TGS offers comes in the form of a Professional Doctorate in Engineering, or PDEng, programme. Designed in collaboration with a designated organization, these two-year, tailored programmes are aimed at you becoming a high-level technological designer. The programme combines an educational section at the university (60 EC) with a practical design section, via industry-related opportunities (60 EC). Thus this post-Master’s programme combines academic research in a professional context with education in a range of related subjects.

The courses involved offer both breadth and depth, with ample attention and focus on your professional development. In consultation with partners from a specific industry, each programme will be tailored to your specific needs. The aim is to provide you with all the knowledge you need in order to develop the technological solution you will work on in your practical assignment. This is typically a challenging and innovative technological design project – a real problem that needs to be solved. During this design project, you will convert knowledge and research results into technological innovation, impacting industry and society. You will be supervised by engineers from a specific industry as well as by university staff, making maximum progress in scientific knowledge, practical design experience and project management expertise.

PDEng students receive a salary throughout the programme. On successfully completing the programme, you will receive a certified diploma and the academic degree title, Professional Doctorate in Engineering (PDEng).
PROFESSIONAL LEARNING AND DEVELOPMENT

Our Professional Learning and Development (PLD) scheme offers a wide range of postgraduate education and executive education programmes for managers, professionals, advisors and advisory boards who work in the public or private sector. It includes short (one or two-day) programmes, part-time MSc programmes, three-month master classes, in-company programmes and more. Three times a year, we also organize and host symposia, at which professors and professionals are invited to discuss work experience in key fields.

WE WILL PREPARE YOU FOR A GREAT CAREER
A Master’s degree will open up many doors to you. Your employability will be outstanding, particularly if you graduate from a university like ours, with its reputation for multidisciplinary thinking and practical problem-solving. Long before you complete your studies, we will do all we can to make sure you are ready for a great career – and to help you find the right openings to pursue it.

• BENEFIT FROM OUR BUSINESS NETWORK
Our extensive network of companies and organizations in different international industries gives graduates excellent opportunities to find interesting traineeship positions.

• ATTEND OUR COMPANY DAYS
At our annual on-campus Company Days (‘Bedrijvendagen’ in Dutch), we match around 2,000 students, PhDs and graduates with representatives of about 125 companies.

• CHECK OUT WHERE OUR ALUMNI WORK
Some of the organizations our alumni work for may inspire you as you consider your career. They include WWF, Philips, Microsoft, Google, AkzoNobel, Shell, Unilever, Fortis ASML, Ericsson, Siemens, Heineken, General Electric, Nestlé, United Nations, Audi, KLM-Air France, Deloitte, Capgemini, Thales and IBM. Where will we find you in the future?
GET READY.
GET SET. APPLY!

OUR APPLICATION PROCEDURE
Your application starts by filling in our online application form. Please submit this form as soon as possible. If you wish to apply for a scholarship, communicate this clearly to your faculty contact person. If you are an international student intending to apply for a scholarship programme outside the University of Twente and you require confirmation of admission for scholarship application, make sure you apply two months before the scholarship programme’s application deadline.

More details: utwente.nl/go/application-deadlines

NOTICE OF ADMISSION
When we have received your complete application package, one of our Educational Admission Committees will evaluate it. You will be informed of the outcome as soon as possible (within four weeks). You will receive confirmation of your admission by email.
ADMISSION

REQUIREMENTS FOR INTERNATIONAL STUDENTS

THESE ARE THE GENERAL REQUIREMENTS FOR ADMISSION TO OUR MASTER’S PROGRAMMES:
1. A relevant Bachelor’s degree (or equivalent qualification) from a university or other accredited academic institution;
2. Sufficient command of English (no other test will be accepted);
   a) Academic IELTS, overall band score of at least 6.5;
   b) TOEFL, internet based (TOEFL-iBT) of at least 90;
   c) Cambridge CAE-C (CPE).

YOU ARE EXEMPT FROM THE ENGLISH LANGUAGE REQUIREMENTS IF:
» you are a native English speaker from Australia, Canada (English-speaking part), Ireland, New Zealand,
» the United Kingdom or the United States of America;
» you have a relevant Bachelor’s degree from an accredited academic institution in the Netherlands;
» you have obtained a three-year Bachelor’s degree in Australia, Canada, Ireland, New Zealand, the United Kingdom or the United States of America.

TRANSFERRING TO A MASTER’S PROGRAMME AT THE UNIVERSITY OF TWENTE
If you have completed – or are about to complete – a Bachelor’s programme at a Dutch university of applied sciences (HBO) or a research university, you can apply for a one or two-year Master’s programme. Your Bachelor’s degree will not always directly qualify you for admission to the Master’s programme of your choice: you may have to take a tailored pre-Master’s programme, which you will have to complete successfully in order to proceed to the Master’s programme. You can enrol in the pre-Master’s programme after or during your Bachelor’s programme. For more information, check the pre-Master’s page on our website: utwente.nl/en/education/master/pre-master.

APPLICATION PROCESS AND ELIGIBILITY CHECK
In order to apply for most of our programmes you will need to use the Dutch university online application system (www.studielink.nl). However, the starting point for your application should be the UT website, via an eligibility check: utwente.nl/go/apply-international-msc.

Please note, the Master’s programme in Geo-Information Science and Earth Observation has different admission requirements and a different application procedure. For additional, programme-specific requirements, please check the programme page of your interest on our website. You can also do an eligibility check there.

You can apply for admission to a Master’s programme at the University of Twente before completing your Bachelor’s degree. You may be granted conditional acceptance based on your transcripts, detailed curriculum information, relevant research and expected graduation date. However, before you can start your Master’s, we will require proof that you have obtained your Bachelor’s degree.

ADDITIONAL REQUIREMENT FOR CHINESE NATIONALS
Nationals of the People’s Republic of China need to obtain a NUFFIC certificate as validation of their qualifications, in addition to their English language test score documents. The University of Twente requires your NUFFIC certificate (formally known as NESO certificate) for your visa application. NESOCHINA.ORG

DEADLINES

<table>
<thead>
<tr>
<th></th>
<th>START SEPTEMBER 2018</th>
<th>START FEBRUARY 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-visa students</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Complete application at admission office before:</td>
<td>1 July 2018</td>
<td>1 December 2018</td>
</tr>
<tr>
<td>2. Submit entrance acceptance form before:</td>
<td>1 August 2018</td>
<td>1 January 2019</td>
</tr>
<tr>
<td>Visa students**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Complete application at admission office before:</td>
<td>1 May 2018</td>
<td>1 October 2018</td>
</tr>
<tr>
<td>2. Submit entrance acceptance form before:</td>
<td>15 June 2018</td>
<td>15 November 2018</td>
</tr>
<tr>
<td>3. Visa application before:</td>
<td>1 July 2018</td>
<td>1 December 2018</td>
</tr>
</tbody>
</table>

*) The deadline for Business Administration is 1 July or 1 December. The deadlines for Psychology and Communication Sciences are 1 August and 1 January.
**) Students changing the purpose of their stay also need to comply to these deadlines.
WHAT ABOUT THE MONEY?

As a student in the Netherlands, you will have various costs to cover, such as tuition fees, visa payments, housing, insurance and day-to-day expenses. Here is a brief overview of what to expect. For more detailed information, visit our website at utwente.nl/go/finance.

TUITION FEES
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 subsidized by the Dutch government. Dutch universities do not receive government funding for non-EU students. This is why we set different rates for students from outside the EU/EEA. Please note that some of our Master’s programmes have different fee structures. For more details, check utwente.nl/go/tuition-fees.

** TUITION FEES PER YEAR FOR REGULAR PROGRAMMES **

<table>
<thead>
<tr>
<th>NATIONALITY</th>
<th>DURATION OF MSC PROGRAMME</th>
<th>TUITION FEES PER YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU/EEA nationalities</td>
<td>One and two years</td>
<td>€ 2,060</td>
</tr>
<tr>
<td>Non-EU/EEA nationalities</td>
<td>One year</td>
<td>€ 11,500</td>
</tr>
<tr>
<td>Non-EU/EEA nationalities</td>
<td>Two years</td>
<td>€ 14,250</td>
</tr>
</tbody>
</table>

* Note that these are the tuition fees for the academic year 2018/2019. The amount is adjusted annually.
** Geo-information Science and Earth Observation: Both EU/EEA and Non-EU/EEA nationalities will pay € 14,250 per year

EU/EEA countries: Austria, Belgium, Bulgaria, Cyprus, Croatia, Czech Republic, Denmark, Estonia, France, Finland, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, United Kingdom, and Sweden.

Students from Switzerland and Suriname (only regarding tuition fees) are also in this category.

PLEASE CHECK OUR WEBSITE FOR UP-TO-DATE AND DETAILED TUITION Fee REGULATIONS: utwente.nl/go/finance
COST OF LIVING

Before coming to study at the UT, you must also consider the cost of living in the Netherlands. Count on a total cost of living of around €9,500 to €10,500 per year (excluding tuition fees). Here is a rough indication of your annual expenses:

- Housing: € 5,000
- Books & supplies: € 500
- Bank account: € 50
- Food: € 2,500
- Transportation: € 600
- Other (clothing etc.): € 800
- Bicycle: € 125
- Insurance (optional for EU/EEA students): € 480
- Entry visa/residence permit: € 317

(Non-EU/EEA students only)

Total annual costs: € 10,372
EU/EEA students € 9,575

HOW ABOUT A PART-TIME JOB?

As an international student in the Netherlands, you may want to take a part-time job to cover expenses, help you assimilate into Dutch society and gain some work experience. Check the link below for more details.

UTWENTE.NL/GO/FINANCE

SCHOLARSHIPS

The University of Twente offers various scholarships to excellent students enrolling in graduate programmes. You can apply for one as soon as you have received a letter confirming at least provisional admission (see also the application procedure on page 39).

MORE INFORMATION: UTWENTE.NL/SCHOLARSHIPS
CONGRATS, YOU’RE IN! NOW WHAT?

AFTER ADMISSION
Once you have been admitted to a Master’s or pre-Master’s programme, you will receive an Entrance Acceptance Form (EAF). As soon as you return this form, your application will further be processed and several of our services will start to work to help ensure that you have a smooth arrival and stay at the University of Twente.

ENTRY VISA AND RESIDENCE PERMIT
The University of Twente assists all students requiring an (entry) visa, residence permit and/or Change of Purpose. If you require an entry visa or residence permit, you will receive an email after your admission, outlining all necessary procedures, after returning the EAF. Keep in mind that, by Dutch law, students cannot apply for a visa themselves.

UTWENTE.NL/GO/VISA
HOUSING
The University of Twente helps international students find furnished accommodation on- and off-campus. We always take your personal preferences and needs into account. All rooms are private, while bathroom and kitchen facilities are often shared with other students. The rent for furnished housing varies from €300 to €450 per month for on-campus, shared facilities, and €320 to €770 per month for off-campus, private facilities. You will receive an email after your admission, outlining the application process for housing. Visa students who apply for accommodation, are guaranteed to receive an offer for accommodation. We provide accommodation in well-furnished rooms at the ITC International Hotel (IIH) as an integral component of the Master’s programme in Geo-Information Science and Earth Observation. For more information check: UTWENTE.NL/GO/HOUSING

For more tips on how to find accommodation in Enschede, download our manual: UTWENTE.NL/GO/ALTERNATIVE-ACCOMMODATION

INSURANCE
International students studying in the Netherlands are required by law to have health and liability insurance. We can help you arrange a complete insurance package covering most health and liability costs with a Dutch insurance company. If you are a non-EU Master’s student, our university can help you. If you are insured under the national health insurance scheme of an EU/EEA member state or Switzerland, your insurance company can provide you with a European Health Insurance Card (EHIC). All other international students can visit the university website to arrange their insurance. UTWENTE.NL/GO/INSURANCE

KICK-IN INTRODUCTION DAYS
The University of Twente organizes an introduction period for new students before every autumn and spring semester. Called Kick-In, the event gives you the opportunity to meet your fellow students and get to know Enschede and the university’s campus. We can also help you sort out official arrangements, such as your university registration and the first steps towards registration with the municipality of Enschede during this week. If you have received an Admission Letter from the university, you will be personally invited – and expected – to attend the formality market for international (visa) students during the Kick-In. For more information, visit the Kick-In website: KICK-IN.NL/EN

PICK-UP SERVICE
When you arrive at Amsterdam Schiphol Airport, you can make use of the UT’s airport pick-up service. Keep an eye on the Kick-In website to sign up for this service.

SUPPORT STRUCTURE
It’s exciting and fun to study abroad, but there may be times when you can use some extra help. The University of Twente and your fellow students have organized a support structure, or Student Affairs Coaching & Counselling. They can help you manage your expectations, deal with feelings of loneliness or struggles in keeping up with your studies while adapting to life here in the Netherlands. Whatever issue you are dealing with, you are always welcome to ask for support. UTWENTE.NL/GO/SACC

LEARNING DUTCH
The Dutch are known for their good conversational skills in English, but you may find it useful and fun to learn some Dutch yourself. Check the link below for more details. UTWENTE.NL/GO/PREPARE
OVER 45,000 ALUMNI ACROSS THE WORLD

BERLIN 181
LONDON 182
BEIJING 162
JAKARTA 145
AMSTERDAM 138
SAN FRANCISCO 131
KATHMANDU 241
NAIROBI 144
BRUSSELS 140
ZURICH 132
TEHRAN 130
SINGAPORE 119
BARCELONA 117
PARIS 117
NEW YORK 117

THE NETHERLANDS 30,544
EUROPE EXCL. THE NETHERLANDS 4610
AFRICA 2471
ASIA 3944
NORTHERN AMERICA 748
SOUTHERN AMERICA 722
OCEANIA 132

GET IN TOUCH

STUDENT FOR A DAY
Are you a Bachelor’s student at a university or a university of applied sciences (‘HBO’ in Dutch) eager to know what studying at the University of Twente is all about? Why not sign up to be a ‘student for a day’, and experience your own personalized open day? Sign up here:
UTWENTE.NL/STUDENT-FOR-A-DAY

MEET US AT AN EDUCATIONAL FAIR NEAR YOU
Representatives from the University of Twente frequently visit educational fairs all over the world to present our Master’s programmes. Come meet us at a fair near you! Check our website for the latest information on where to find us.
UTWENTE.NL/GO/FAIRS

CONTACT US ON SOCIAL MEDIA
Join the conversation and stay up-to-date via our corporate Facebook page:
FACEBOOK.COM/UTWENTE

If you are from the Arab World, Brazil, Bulgaria, Germany, Greece, India, Indonesia, Mexico or Romania you may want to check our country-specific Facebook pages:
FACEBOOK.COM/UT.ARABWORLD
FACEBOOK.COM/UT.BRAZIL
FACEBOOK.COM/UT.BULGARIA
FACEBOOK.COM/UT.GERMANY
FACEBOOK.COM/UT.GREECE
FACEBOOK.COM/UT.INDIA
FACEBOOK.COM/UT.INDONESIA
FACEBOOK.COM/UT.MEXICO
FACEBOOK.COM/UT.ROMANIA

For students from China, we have a dedicated Weibo community page:
WEIBO.COM/UTWENTE
UNIVERSITY OF CURIOUS PEOPLE.

CURIOUSU: SUMMER SCHOOL MEETS SUMMER FESTIVAL

CuriousU is a great way to get to know our university and to pick up some valuable knowledge and skills. Our festival-style summer school offers you a range of high tech courses and a taste of living and studying on the only park-like campus in the Netherlands.

We’ll be offering great courses in our hottest research fields:
- Health and Happiness
- Design and Construct the Future
- EntrepreneurialU
- Physics
- Risk Management
- Serious Gaming
- Smart Cities
- Water
- Dutch Language and Culture
- The Future of Health Technology

Visit our website for programme details:
utwente.nl/curiousu
> BEAUTIFUL PARK-LIKE CAMPUS WITH ALL THE FACILITIES YOU NEED

> MOST ENTREPRENEURIAL UNIVERSITY IN THE NETHERLANDS

> A HIGHLY INTERNATIONAL COMMUNITY & PROFILE

> STATE-OF-THE-ART EDUCATION LINKED TO CUTTING-EDGE RESEARCH

> ‘HIGH TECH HUMAN TOUCH’ APPROACH

UTWENTE.NL

> BASED IN ENSCHEDE, THE NETHERLANDS

> 1.5 HOURS FROM AMSTERDAM

> A CITY-HOP FROM PARIS, LONDON OR BERLIN
GET A TASTE OF YOUR OWN FUTURE AT THE UNIVERSITY OF TWENTE.

Go to utwente.nl/go/master for more information and to sign up for one of our orientation activities:

• Open Days
• Student for a day