MASTER OF SCIENCE DEGREES

ACADEMIC YEAR 2019 - 2020

UNIVERSITY OF TWENTE.
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<td>BEACH VOLLEYBALL/BASKETBALL</td>
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<td>SOCCER FIELD WITH RUNNING TRACK</td>
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UNIVERSITY OF TWENTE
ACTIVITY CALENDAR
DROP IN, JOIN IN AND EXPERIENCE OUR UNIVERSITY YOURSELF

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

OPEN DAYS
15 NOVEMBER 2018 AND 14 MARCH 2019
» Find out about our programmes, our campus, career opportunities and much more
» For more information visit: utwente.nl/en/opendays

STUDENT FOR A DAY
CHOOSE YOUR OWN DATE ON WORKDAYS BETWEEN MID-OCTOBER AND MAY
» 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)
» 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

CONTACT US ON SOCIAL MEDIA
Join the conversation and stay up-to-date via our corporate Facebook page: @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:
@UT.ARABWORLD, @UT.GERMANY, @UT.INDONESIA, @ESTUDANDONATWENTE, @UT.GREECE, @UT.MEXICO, @UT.BULGARIA, @UT.INDIA, @UT.ROMANIA

For students from China, we have a dedicated WeChat account: UTWENTE
Indonesian students can also make contact via our LINE account: @UTWENTE

7 BENEFITS OF STUDYING AT THE UNIVERSITY OF TWENTE:

01 ONE OF THE WORLD’S TOP RESEARCH UNIVERSITIES
02 LEADING THE WAY IN ENTREPRENEURSHIP AND SOCIETAL IMPACT
03 THE ONLY ‘PARK-LIKE’ CAMPUS IN THE NETHERLANDS: A SMART LIVING LAB
04 GLOBAL AMBITION MEETS PERSONAL APPROACH
05 STATE-OF-THE-ART RESEARCH LABS AND FACILITIES
06 HIGH TECH HUMAN TOUCH: COMBINING TECHNOLOGY, SCIENCE AND ENGINEERING WITH SOCIAL SCIENCE TO INITIATE CHANGE IN SOCIETY.
07 ONE THIRD OF OUR STUDENT POPULATION IS INTERNATIONAL

7 BENEFITS OF STUDYING AT THE UNIVERSITY OF TWENTE:

FOLLOW US ON SOCIAL MEDIA!
@UTWENTE
@UTWENTE
@UTWENTEEN

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 via commercially viable activities.

Welcome to the University of Twente in Enschede, the Netherlands!

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 more than 10,000 students and 3,000 staff 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 entrepreneurial 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 entrepreneurial 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 1,000 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.
OUR FOCUS ON SOCIETAL CHALLENGES

In an unpredictable and rapidly changing world, we focus all of our education and research on developing relevant answers for five societal challenges.

UTWENTE.NL/RESEARCH

#INTELLIGENTMANUFACTURING

CREATING INTELLIGENT MANUFACTURING SYSTEMS and leading the way in combining production technology, ICT, supply chains and business modeling to create a more circular economy.

#DIGITALSOCIETY

ENGINEERING OUR DIGITAL SOCIETY and helping society manage the shifts and shake-up caused by digitalization, for example through reliable digital systems, well-informed decision-making and explainable data analytics.

#SMARTMATERIALS

SHAPING OUR WORLD WITH SMART MATERIALS that offer functionalities not yet found in the physical world, for example by leading the way in nanotechnology and biomedical materials.

#RESILIENTWORLD

ENGINEERING FOR A RESILIENT WORLD by combining three vital knowledge domains – data, technology, people – that can help us end poverty and sustainably manage climate change, production and consumption.

#HEALTHTECH

IMPROVING HEALTHCARE BY PERSONALIZED TECHNOLOGIES, as illustrated by our pioneering role in early detection and targeted treatment of diseases and increased patient independence.
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 over 10,000 students and 3,000 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.

**FACTS & FIGURES**

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<td>Employees</td>
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**DID YOU KNOW THAT THE UNIVERSITY OF TWENTE...**

✓ IS SET ON A BEAUTIFUL 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, BRAZIL, MEXICO, AUSTRALIA, CHINA, INDONESIA, INDIA AND OTHER COUNTRIES

✓ IS THE FINISH LINE OF THE BIGGEST RELAY RACE IN THE WORLD, THE ‘BATAVIERNRACE’, WHICH IS FOLLOWED ANNUALLY BY EUROPE’S LARGEST ALL-NIGHT STUDENT PARTY
1,522 EXCELLENT SCIENTISTS & 372 LAB FACILITIES ON CAMPUS

Though small in scale, the UT is a world-renowned top research university and home to no fewer than 1,522 scientists and 372 lab facilities. Here’s just a glimpse of our facilities, faculties and research institutes — and the many cross-links that make us stand out as societal impactors.

**NANOLAB**
1,250 m² state-of-the-art infrastructure which form the heart of cutting-edge research in micro- and nanotechnology.

**DESIGNLAB**
A creative & cross-disciplinary ecosystem, connecting science and society through design.

**HIGH PRESSURE LAB**
For safe experiments with high pressures and temperatures.

**FACULTY**
**ELECTRICAL ENGINEERING, MATHEMATICS & COMPUTER SCIENCE**

**RESEARCH**
**INTEGRATED CIRCUIT DESIGN**
Plantenna - botanic sensor networks, towards an Internet of Plants.

**RESEARCH**
**PHYSICS OF FLUIDS**
Research in the field of fundamental processes in fluids, such as turbulence, sonoluminescence and droplet behaviour.

**VIRTUAL REALITY LAB**
High-tech environment to facilitate multistakeholder decision making.

**FACULTY**
**ENGINEERING TECHNOLOGY**

**RESEARCH**
**BIO-INSPIRED AND MOLECULAR MATERIALS**
Developing artificial molecular materials that are capable of movement, often under the influence of light.

**MESA+ INSTITUTE**
Research Institute

**MORE DETAILS:**
UTWENTE.NL/MESAPLUS

**RESEARCH**
**SCIENCE & TECHNOLOGY**

**RESEARCH**
**MARINE AND FLUVIAL SYSTEMS**
Ground-breaking research into changes to the soil, banks and shores of sandy rivers, coastal areas and seas.
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
- Sort out 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 Northwest 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. 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 associations 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.

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. In fact, the Netherlands is ranked number 1 in the world when it comes to proficiency in English as a second language. 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.

ENSCHEDE, 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.
For the third time in a row, our university was awarded the title of Most Entrepreneurial University in the Netherlands in 2017. The Times Higher Education (THE) ranks us among the top 200 universities worldwide. We were also acclaimed the Best Technical University in the Netherlands for our Bachelor’s programmes. According to I-graduate, we’re one of the top ten research institutes worldwide for sports facilities, campus environment, learning spaces and campus buildings. The university was also recently ranked in 172nd place, in the QS World University Rankings for 2019. 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 2018: 179*

**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 2019: 172*

**SHANGHAI RANKING (ARWU)**
Uses six objective indicators to rank world universities
*Overall ranking University of Twente for 2017: 301-400*

**SCIENCEWORKS & ELSEVIER VALORIZATION RANKING 2017**
Maps how universities utilize their scientific and technological knowledge to create economic and social benefits
*Overall ranking University of Twente for 2017: 1st place*

**KEUZEGIDS RANKING 2018 - BEST TECHNICAL RESEARCH UNIVERSITY**
Judges Dutch universities and programmes offered, using data from the National Student Survey, reports by the Accreditation Organization of the Netherlands and Flanders (NVAO) and other national educational statistics
*Overall ranking University of Twente for 2018: 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: Delft University of Technology, Eindhoven University of Technology, Wageningen University and the University of Twente.

For more details on additional options to double your knowledge, network and potential, go to page 32.
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 application areas.

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 ambition, you will find plenty of scope for tailoring this programme to your own wishes, gaining access to many career opportunities. In our technology-dependent society, commercial and governmental organizations as well as the academic world have a growing need for professionals with an up-to-date background in applied mathematics at an academic level.

APPLIED PHYSICS

Applied Physics is all about understanding the fundamental laws of the physical world and finding ways to apply those laws in technical solutions. Applied Physicists use scientific principles to create or improve practical devices and systems and to contribute in many other fields. The Physics Department at the University of Twente is one of the best in the world.

During our Master’s in Applied Physics you will learn more about the fundamentals of modern physics and their application. This top-rated programme will expand your knowledge of physics as a whole, while giving you the opportunity to deepen your knowledge in a specialization of your choice. At the University of Twente we focus on science and engineering in areas such as Physics of Fluids, Nanoelectronic Materials, Applied Nanophotonics, Soft Matter, and Energy Materials & Systems. You can tailor your programme to suit your individual interests and ambitions. For a complete overview of our focus areas and the corresponding courses, please visit our website.
Are you excited about developing 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 will enable you 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. It is a dynamic, interdisciplinary field that 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 the following 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, for instance by using bio robotic techniques or electrical stimuli.

Are you fascinated by the many social and technological changes shaking up consumer expectations, business models, supply chains and entire markets in today’s unpredictable world? Do you see yourself stepping forward to lead the way regarding innovation and sustainable business success in the international corporate arena? If so, the Master’s programme Business Administration (BA) at the University of Twente may be the right choice for you.

This programme will uniquely prepare you for an international, cross-cultural, multidisciplinary career. You will develop an entrepreneurial, innovation-sensitive approach to complex business challenges, while benefiting from world-class research facilities and a vibrant, international business network. Pursuing one of our challenging specializations will give you a head start in the job market. You can also deepen your knowledge and expand your horizons by following one of our double degree programmes abroad, thereby getting a second Master’s degree.

Does the idea of taking a Business Administration Master at a university acclaimed for its societal impact and entrepreneurial spirit inspire you? Then this programme could be the right choice for you.
BUSINESS INFORMATION TECHNOLOGY

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. This programme is supported by highly qualified researchers in Business Administration and Computer Science, who cooperate in this programme on a 50-50 basis. With their input, you will acquire the knowledge and skills you need to effectively connect business and IT.

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 job options. For instance, you could 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 ENGINEERING

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. They are well-versed in chemistry, materials science and process technology as well as 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. The programme offers two specializations: Chemical & Process Engineering, in which you will learn to design 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 theories with research skills, a creative mindset, and an action-oriented attitude towards solving problems with the latest technologies.

Our Master’s programme in Communication Studies combines academic rigour with practical relevance in order to train you to be just such an expert. The programme covers the most relevant themes for communication professionals in four specializations: Organizational Communication & Reputation, Technology & Communication, Marketing Communication & Design, and Digital Marketing Communication. This Master’s programme is directly related to our general research in the field of Communication Science, with a special focus on the relationships between organization, technology and design. When you graduate, you will be a highly trained communication professional with the insight and creativity to handle all kinds of communication issues.
COMPUTER SCIENCE

In today’s smart society humans, organizations and systems increasingly rely 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 get familiar with 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.

CONSTRUCTION MANAGEMENT & ENGINEERING

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 exactly that kind of engineer: a hands-on expert, equipped to combine the technical aspects of civil engineering projects with the 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.
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 Education of Social Sciences and Humanities. 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 makes good use of a more 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.

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).

This programme 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 gain expertise in 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 invent new methods and technologies that will pave the way for the next steps in high-tech, wirelessly connected, electronics-based systems? Would you like to learn how to create the technology needed for building small ground or aerial robots that can assist rescue workers? Are you interested in developing lab-on-a-chip technologies to explore Alzheimer’s disease? In our Master’s programme in Electrical Engineering you will learn 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.

Thanks to the various specializations we offer, you can tailor this programme to your own personal interests. You can shape your own future as well as the future of our world – either as a researcher inventing new technologies and methods, as a designer developing new products and services, or as an organizer managing an engineering department or providing consulting services.

This programme focuses on innovation in the fields of information systems, semiconductor and nanotechnologies, Internet of Things, circuits and systems, biomedical applications and robotics. Topics related to power electronics, such as photo voltaic power and wind power systems, are not included.

EMBEDDED SYSTEMS

Is it possible to design an exoskeleton controlled by the user’s nervous system? Can we prove that an airbag inflates in time? How far are we in developing 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 and real-time operating systems.

This is a 4TU programme, which means you can take relevant courses at four Dutch universities of technology. Hardware/software systems, increasingly, are being embedded in everyday products and places, due to the exponential increase in computing power, ubiquitous connectivity and the convergence of technology. 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 this programme is to provide future decision-makers, in companies, and governmental and nongovernmental organizations, with the knowledge and skills needed to manage sustainability in a technological context. In this programme you will learn how to analyse and act in a sustainable, proactive way, whether in policy, production or resource utilization. The overall goal is to enable you to contribute to capacity building, and to the management of socio-technical challenges 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 in a local or global context.

EUROPEAN STUDIES

Our one-year Master’s programme in (Global and) European Studies will give you the expertise you need to operate in that complex, fascinating environment called Europe, in which many government levels and stakeholders convene. You can combine this Master’s with a Master’s in Comparative Public Governance at the German University of Münster and obtain a double degree. This option takes two years.

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 all 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. If you want to prepare yourself for helping Europe to balance technological advances with human values, this programme is the place to do it.
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.

Geographical Information Management & Applications (GIMA) is 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 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.

Imagine deploying drones to assess disaster damage and to gather data that can be instantly used to take action. Imagine enabling self-driving cars to go where they’re supposed to go or taking augmented reality to a level where it could actually help solve problems in the real world. These are just a few of the many areas you can enter with geo-information science and earth observation.

From traditional map-making to creating modern data-driven solutions, this field offers an incredible variety of opportunities. It has been identified as one of the three fastest growing industries of the 21st century. Would you like to be at the forefront of this growth wave? Are you looking for a first-rate Master’s programme that will unlock your future in multiple ways? Does the prospect of living and studying in an international environment appeal to you? Then ITC at the University of Twente could be just the ticket. This programme will give you a broad overview of the most relevant topics in the field and offer plenty of room for specialization. After graduation, you will almost literally be able to be what you want to be.
HEALTH SCIENCES

Are you fascinated by 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, our Master’s programme Health Sciences may be the perfect choice for you.

This programme focuses on the use of technology and innovation for improving healthcare. You will learn to analyse problems from different perspectives, while familiarizing yourself with the use of 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 combine a keen understanding of technology with the ability 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 familiarize 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.
INDUSTRIAL ENGINEERING & MANAGEMENT

In our globalized 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.

This programme will enable 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.

INTERACTION 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 fulfill 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 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, which combines Interaction Technology with a business minor.
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. Among the most important technological breakthroughs in the near future will be those involving the connection of networks and systems. With a Master’s degree in Internet Science & Technology you will be part of a small group of globally leading specialists in this field of communication networks.

This programme will enable you to become a creative expert in terms of understanding, maintaining, securing and developing communication networks and cyber-physical systems. This will make you a reliable guide as we enter the very unpredictable future of the Internet and other networks. Think, for example, of 4G, 5G, Wi-Fi or other wireless networks, the ‘cloud’, social networks, Internet of Things (IoT) systems or ad hoc networks – such as the constantly changing networks between autonomous vehicles, or an emergency network in a disaster area. Possible careers include that of a network architect, a network security specialist or a network scientist.

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.
**NANOTECHNOLOGY**

Nanotechnology is a multidisciplinary research field dealing with dimensions and tolerances of less than 100 nanometres and focusing on the manipulation of individual atoms and molecules. In our Nanotechnology Master’s programme you can become an expert in this exciting field.

Nanotechnology is all about studying the changes that the physical and chemical properties of a material undergo at nanoscale in order to design and develop functional materials, structures, devices and systems. Our programme is highly multidisciplinary, combining traditional disciplines, such as physics, chemistry, electrical engineering and biology. You will learn all about fabricating and characterizing nanomaterials and designing nanodevices. Then you can specialize in Solid State Matter, (Bio)Molecular Matter or Soft Matter combined with Systems.

Our programme has a strong research component and many graduates go on to do a PhD, either here at the MESA+ Institute or elsewhere in the world. With a Master’s in Nanotechnology you will also be an attractive employee to all kinds of high-tech companies creating new materials, technologies or products in sectors such as energy, water, healthcare or electronics.

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**METHODOLOGY & STATISTICS FOR THE BEHAVIOURAL, BIOMEDICAL & SOCIAL SCIENCES**

Methods and statistics are important components 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 enable you to develop, evaluate and apply methodological and statistical approaches that are relevant to these 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 requiring data-driven solutions related to methodological and statistical work. Examples include the academic world, research institutes and government organizations.

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**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/NANO
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 apps for reporting neighbourhood crime. What makes our Psychology Master’s programme unique is 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 enable you to tackle the grand societal challenges of today and tomorrow. What makes this programme unique is that you will learn to combine public administration expertise with cross-disciplinary research in a domain you are excited about, for example, healthcare, urban innovation, (cyber) security or sustainability.

We live in a complex, constantly changing society and our world faces major social, technological, ecological and geopolitical challenges. In this programme you will learn to analyse the political and administrative dimensions of these challenges. You will acquire the skills and conceptual tools you need to engage in descriptive, explanatory and normative research. The programme takes a comparative approach, looking at governance, policy-making and management practices on different scales. In elective courses and during your thesis you get to take in-depth courses in a specialization of your own interest.

PUBLIC ADMINISTRATION FACTS

DEGREE | MASTER OF SCIENCE
MODE OF STUDY | FULL-TIME
CREDITS | 60 EC
PROGRAMME DURATION | 1 YEAR
STARTS | SEPTEMBER OR FEBRUARY
LANGUAGE | ENGLISH
SPECIALIZATIONS | CHECK THE WEBSITE FOR OUR PROFILES
FIND OUT MORE AT UTWENTE.NL/GO/PA

SCIENCE EDUCATION & COMMUNICATION

If you have a Bachelor’s degree in a technical field and you are interested in sharing your knowledge with young people, our Dutch-taught Master’s programme in Science Education & Communication is the right choice for you.

Throughout the Science Education & Communication programme, you will be trained to become a top-notch secondary school teacher in chemistry, physics, mathematics, computer science or research & design, 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.

SCIENCE EDUCATION & COMMUNICATION 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
MASTER’S PROGRAMMES

SPATIAL ENGINEERING

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.

SUSTAINABLE ENERGY TECHNOLOGY

The two-year Master’s programme in Sustainable Energy Technology invites you to gain in-depth understanding of energy technology and engineering. In addition to the technology oriented courses you will have the opportunity to supplement your engineering knowledge with skills related to entrepreneurship and innovation. Building on this broad foundation, you will rise above technology 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. This will make you an authority in implementing technology-driven change in energy markets worldwide.
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 to 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.

**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 of robots, drones, smart cars, high speed trains, smart factories, (biomedical) imaging devices, high-tech rehabilitation devices and the like.

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 models, numerical methods, such as finite elements, and workable 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 (bio)medical equipment.

**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 to 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.
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, the European centre of excellence for sustainable water technology at 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 enable 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. Upon graduation, you will receive one joint Master of Science degree in Water Technology issued by all three universities.
DOUBLE YOUR KNOWLEDGE, NETWORK AND POTENTIAL
ADDITIONAL OPTIONS FOR MASTER’S STUDENTS

Open yourself up to more life experiences and opportunities regarding future employment. 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 reputable higher education institutes around the globe.

JOINT DEGREE
A joint degree is a single diploma awarded by at least two higher education institutions offering an integrated programme. It is awarded after successful completion of a joint programme and 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. Joint programmes can take more time than a standard Master’s programme, but usually take less time 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.

A SELECTION OF OUR JOINT & DOUBLE DEGREE PROGRAMMES

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The UT is eager to create an international environment for educating the global citizens of tomorrow and to become the most welcoming university for international talent.

International collaboration and strategic partnerships help us to bring the world to our campus – and vice versa. The University of Twente collaborates with a large number of top-notch international universities, companies and governmental organizations around the world. Depending on your programme, we have exchange and internship opportunities in most European countries and many non-EU countries, such as Australia, Brazil, China, Hong Kong, Indonesia, Japan, Mexico, Russia, South Korea or Taiwan. We collaborate with leading hospitals and international companies, such as ASML, Boeing, Google, Microsoft, Unilever, Akzo Nobel, Shell, Siemens, BP and Philips.

We have extensive exchange links with members of the 4TU Federation, a partnership between the four leading universities of technology in the Netherlands (Delft University of Technology, Eindhoven University of Technology, Wageningen UR and the University of Twente).

As the founding member of the European Consortium of Innovative Universities (ECIU), we offer you easy access to the education and research facilities of our network of entrepreneurial and innovative partner universities across Europe. This is also the case for all other international strategic partner universities in countries such as Brazil, China, Germany, Australia, Canada, the United States of America, Indonesia and Mexico.

MORE INFORMATION: UTWENTE.NL/PARTNERSHIPS

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
**AFTER YOUR MASTER**

**CHOOSE YOUR DESTINATION**

What’s next after you’ve completed your Master of Science degree at the University of Twente? Have you already made up your mind, or are you still figuring it out? Here are four options.

**GET A JOB IN INDUSTRY OR GOVERNMENT**

Our Career Services team will be happy to support you. Contact them at [utwente.nl/careerservices](http://utwente.nl/careerservices)

Looking locally? Twente is an entrepreneurial region rich in knowledge and tech. Discover its top companies and subscribe to the career portal to find the perfect job at [twente.com](http://twente.com)

**START A BUSINESS WITH NOVEL-T**

At the UT, we see ourselves as a catalyst for meaningful entrepreneurship. Our Novel-T foundation can help you and your promising startup to spread its wings and grow into an international player.

Excited? Check [novelt.com](http://novelt.com)

As the most entrepreneurial university in Europe we have gained a good reputation in facilitating start-ups. This has resulted in **more than 1,000 start-ups**: Booking.com, Scisports, Fokker Aerostructures, Robird – Clear Flight Solutions, Demcon, Ramani, Lionix, Hy2Care & Athom.
PREPARE YOURSELF
Do you want to prepare yourself for a PhD or PDEng position?
Our Research Honours programme enables ambitious and talented students to progress as a designer, organizer or researcher.
The UT also offers these three Master’s Honours programmes: Change Leaders, Design Honours and the High Tech Systems and Materials (HTSM) Honours Master’s degree.
MORE DETAILS: UTWENTE.NL/EN/EXCELLENCE

PURSUE A PHD DEGREE
A PhD, or Doctor of Philosophy, degree involves spending four years studying, researching and teaching in a specific research area at one of our institutes or research groups, and gaining the title of Doctor (Dr. or PhD). You can integrate your Master’s and PhD programmes in our MSc + PhD trajectory.

PURSUE A PDENG DEGREE
Our 2-year PDEng programme, or Professional Doctorate in Engineering degree, will help you become a high-level technological designer in Civil Engineering, Energy & Process Technology Maintenance or Robotics. It combines courses at the UT with solving a real tech problem in industry.

HOW TO APPLY FOR A PHD OR PDENG?
CHECK THE NEXT PAGE
APPLYING FOR A PHD OR PDENG POSITION

As a PhD or PDEng candidate, you must have a Master’s degree, or the equivalent, in a relevant discipline. Here’s how you can apply.

PHD CANDIDATES
1. Apply for a regular PhD position via our website at utwente.nl/vacancies.
2. Arrange your own funding or get a scholarship (make sure you contact the head of the research group you would like to join: only after one of our full professors has shown willingness to become your PhD supervisor will the department register you as a guest researcher and arrange for your arrival).
3. Send in an open application and you will be contacted as soon as a vacancy becomes available that we think may suit you. Check utwente.nl/go/phd for the procedure.

PDENG CANDIDATES
1. Apply for a regular PDEng position via our vacancy website.
2. Send in an open application and we will contact you as soon as a suitable vacancy becomes available. More details: utwente.nl/go/pdeng

All our PDEng programmes depend on agreements with external partners. Selection is based on prior MSc results, talent for design, and motivation. If you apply before completing your MSc programme, you may be granted conditional acceptance on the basis of your transcripts, curriculum, relevant research and expected graduation date.

TWENTE GRADUATE SCHOOL
Twente Graduate School (TGS) coordinates high-quality educational programmes based on topics closely related to the work of the university’s research institutes, taught and supervised by expert researchers and designers. TGS offers PhD and PDEng programmes for graduate students who are keen to pursue a career as a scientific researcher or technological designer.

LEARN MORE AT UTWENTE.NL/TGS
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?

PROFESSIONAL-LEARNING.NL
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 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.

BEFORE YOU START, MAKE SURE YOU HAVE THE FOLLOWING DOCUMENTS:
✓ Your Bachelor’s degree certificate or equivalent (if available at time of application)
✓ Certified translation of your Bachelor’s degree if it is not in Dutch, English or German
✓ (Preliminary) transcript of records (in Dutch, English or German)
✓ Valid passport, clearly indicating your city of birth
✓ Result of English language tests
✓ Abstract of your final Bachelor’s project (thesis)
✓ Resume
✓ Letter of application/motivation letter stating your reasons for wanting to join the programme
✓ Additional Higher Degree certificate and transcript
✓ Course descriptions (if required)
✓ GMAT certificate (only for Business Administration applicants)
✓ GRE or GMAT certificate (only for Industrial Engineering & Management)
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 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

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

DEADLINES

<table>
<thead>
<tr>
<th></th>
<th>START SEPTEMBER 2019</th>
<th>START FEBRUARY 2020</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 2019</td>
<td>1 December 2019</td>
</tr>
<tr>
<td>2. Submit offer of admission before:</td>
<td>1 August 2019</td>
<td>1 January 2020</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 2019</td>
<td>1 October 2019</td>
</tr>
<tr>
<td>2. Submit offer of admission before:</td>
<td>1 June 2019</td>
<td>15 November 2019</td>
</tr>
<tr>
<td>3. Visa application before:</td>
<td>1 July 2019</td>
<td>1 December 2019</td>
</tr>
</tbody>
</table>

* Students changing the purpose of their stay also need to comply with these deadlines

PLEASE NOTE: Geo-Information Science and Earth Observation and the programme Geographical Information Management and Applications have alternative deadlines. Please check our website for more information.
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>€ 2,078</td>
</tr>
<tr>
<td>Non-EU/EEA nationalities</td>
<td>One year</td>
<td>€ 12,000</td>
</tr>
<tr>
<td>Non-EU/EEA nationalities</td>
<td>Two years</td>
<td>€ 15,750</td>
</tr>
</tbody>
</table>

PLEASE NOTE:
These are the tuition fees for the academic year 2019/2020. The amount is adjusted annually. Geo-information Science and Earth Observation: Both EU/EEA and Non-EU/EEA nationalities will pay € 26,775 for the full 2-year programme.

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 Surinam (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 (Non-EU/EEA students only): € 192

Total annual costs: € 10,247
EU/EEA students: € 9,575

Please note that some programmes may require additional costs for study materials, such as a laptop.

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. Career Services can provide you with information on the departments and organizations, inside and outside of the UT, that can assist you when looking for job opportunities while studying.

SCHOLARSHIPS

The University of Twente offers various scholarships to students enrolling in graduate programmes. Each scholarship programme has its own set of requirements, most are merit-based. You can apply for a scholarship as soon as you have received a letter confirming at least provisional admission. Make sure you apply to your UT study programme well before the scholarship deadline. Check the UT Scholarship Finder for more details.
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 Offer of Admission. As soon as you accept this offer, your application will be processed further 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 accepting the Offer of Admission. Keep in mind that, by Dutch law, students cannot apply for a visa themselves.

UTWENTE.NL/GO/VISA
FIND ACCOMMODATION
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 can register on our online housing platform Roomspot.nl to respond to housing offers. 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. More tips on how to find housing in Enschede: UTWENTE.NL/GO/HOUSING

ARRANGE 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

JOIN THE 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, during the formality market, such as your university registration and the first steps towards registration with the municipality of Enschede. 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

BOOK OUR PICK-UP SERVICE
When you arrive at Amsterdam Schiphol Airport, you can make use of the UT’s airport pick-up service. Information about the pick-up service can be found both on the Kick-In website kick-in.nl/en and the ESN Twente website esntwente.nl

COACHING AND COUNSELLING
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

LEARN 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. UTWENTE.NL/GO/PREPARE

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OVER 47,000 ALUMNI LIVE IN 169 COUNTRIES

COMPANIES WITH 50 OR MORE UT ALUMNI: ACCENTURE, ARCADIS, AKZONOBEL, ASML, CAPGEMINI, DELOITTE, DEMCON, DSM, IBM, ING, KPMG, KPN, NEDAP, NXP, OCE, PHILIPS, PWC, RABOBANK, SHELL, THALES, TNO, TOPICUS

ALUMNI BY CITY

<table>
<thead>
<tr>
<th>City</th>
<th>Alumni</th>
</tr>
</thead>
<tbody>
<tr>
<td>BERLIN</td>
<td>241</td>
</tr>
<tr>
<td>LONDON</td>
<td>181</td>
</tr>
<tr>
<td>BEIJING</td>
<td>162</td>
</tr>
<tr>
<td>BANGKOK</td>
<td>150</td>
</tr>
<tr>
<td>ADDIS ABABA</td>
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<tr>
<td>SAN FRANCISCO</td>
<td>151</td>
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<tr>
<td>KATHMANDU</td>
<td>150</td>
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<tr>
<td>NAIROBI</td>
<td>144</td>
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<tr>
<td>BRUSSELS</td>
<td>140</td>
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<tr>
<td>ZURICH</td>
<td>132</td>
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<tr>
<td>TEHRAN</td>
<td>102</td>
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<tr>
<td>SINGAPORE</td>
<td>95</td>
</tr>
<tr>
<td>BARCELONA</td>
<td>94</td>
</tr>
<tr>
<td>PARIS</td>
<td>93</td>
</tr>
<tr>
<td>NEW YORK</td>
<td>86</td>
</tr>
</tbody>
</table>

2,671 STUDENTS GRADUATED IN 2017*

LARGEST STUDY PROGRAMMES BASED ON ALUMNI (2017 GRADUATES)
- Business Administration: 215
- Psychology: 300
- Mechanical Engineering: 216
- Technical Medicine: 153
- Civil Engineering: 150
- Industrial Design: 136
- Geo-information Science & Earth Observation: 136
- Industrial Engineering & Management: 117
- Public Administration: 112
- Communication Studies: 110
- Technical Computer Science: 105
- Chemical Engineering: 101
- Biomedical Engineering: 99

LARGEST STUDY PROGRAMMES BASED ON ALUMNI (ALL YEARS)
- Mechanical Engineering: 5,081
- Industrial Engineering & Management: 4,937
- Business Administration: 3,547
- Electrical Engineering: 3,448
- Chemical Engineering: 3,140
- Technical Computer Science: 2,955
- Public Administration: 2,847
- Psychology: 2,733
- Communication Studies: 2,656
- Civil Engineering: 2,313

* BASED ON THE 2016/17 ACADEMIC YEAR

COMPANIES WITH 50 OR MORE UT ALUMNI: ACCENTURE, ARCADIS, AKZONOBEL, ASML, CAPGEMINI, DELOITTE, DEMCON, DSM, IBM, ING, KPMG, KPN, NEDAP, NXP, OCE, PHILIPS, PWC, RABOBANK, SHELL, THALES, TNO, TOPICUS
GET IN TOUCH

CONTACT US ON SOCIAL MEDIA
Join the conversation and stay up-to-date via our corporate Facebook page: @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: @UT.ARABWORLD, @UT.GERMANY, @UT.INDONESIA, @ESTUDANDONATWENTE, @UT.GREECE, @UT.MEXICO, @UT.BULGARIA, @UT.INDIA, @UT.ROMANIA

For students from China, we have a dedicated WeChat account: UTWENTE

Indonesian students can make contact via our LINE account: @UTWENTE

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
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:

- Blockchain Tech
- Design the Future
- Earth Observation & GIS for Engineering and Security
- English for Academic Purposes
- EntrepreneurialU
- Finance boot camp for Smart Businesses
- Governance and Ethics of Technology
- Health and Happiness
- Mix & Match
- Risk Management
- Robot Interaction Design Experience
- Serious Gaming
- Smart Cities
- Evaluating Future Health Technologies
- Water

Programme details: utwente.nl/curiousu

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> 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

> BASED IN ENSCHEDE, THE NETHERLANDS

> 1.5 HOURS FROM AMSTERDAM

> A CITY-HOP FROM PARIS, LONDON OR BERLIN

UTWENTE.NL
GET A TASTE OF YOUR 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 on campus
» Online Open Days
» Student for a day
» Webinars