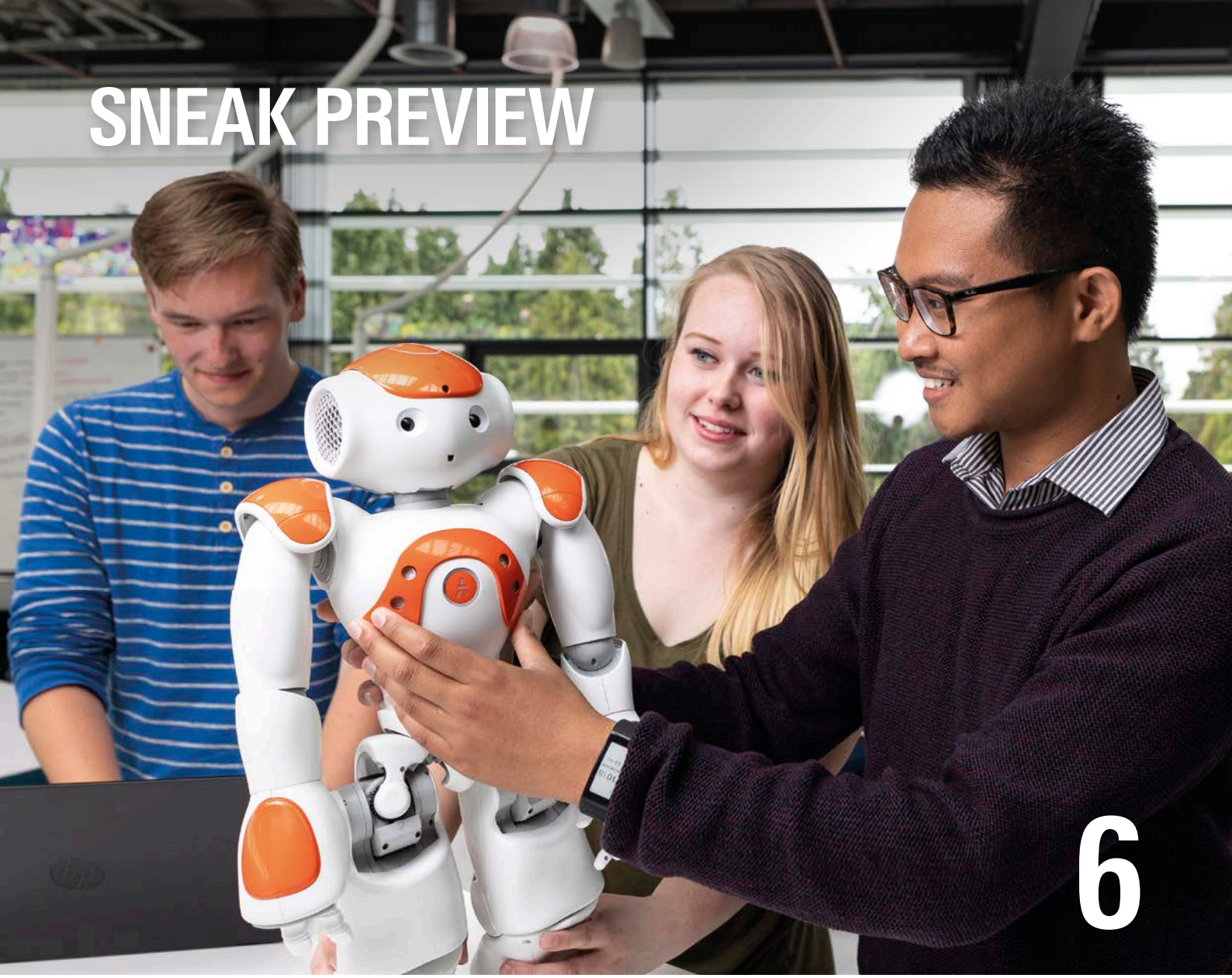
BACHELOR OF SCIENCE PROGRAMMES

ACADEMIC YEAR 2022 - 2023

UNIVERSITY OF TWENTE.

SNEAK PREVIEW



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WE ARE THE LEADING ENTREPRENEURIAL UNIVERSITY

WHY STUDY AT THE UNIVERSITY OF TWENTE?

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YOU CAN CALL US 'UT'

Our full name is University of Twente, but feel free to call us 'UT'!

CONTENTS

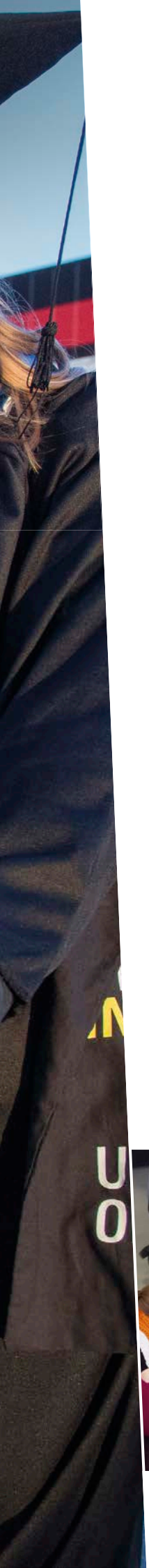
Bachelor of Science programmes

THE BEST WAY TO EXPERIENCE THE UNIVERSITY OF TWENTE? COME BY FOR A VISIT!

- REMI

FENNA VAN GULICK
BACHELOR OF SCIENCE IN TECHNICAL MEDICINE

As a secondary school student, I didn't know anyone who had studied at the University of Twente. I also knew absolutely nothing about the student town of Enschede. All the more reason to sign up for an Open Day! While there, I saw with my own eyes the many facilities the University's large, green campus had to offer, plus the new TechMed Centre, which was being specially built for my degree programme. I could totally imagine myself as a student there. As expected, I feel completely at home here! My decision may have been based on the choice of degree programme, but the great atmosphere, personal touch and small-town feel of our campus convinced me to stay.



MEET THE UNIVERSITY
AND OUR STUDENTS

ONLINE OPEN DAY
NOVEMBER 2021
(EXACT DATES TO BE DETERMINED, PLEASE CHECK OUR WEBSITE)
Learn about all our bachelor's, talk with students and lecturers, discover the campus – and much more!

- ✔ Do a Study Choice Check at our Open Days

FAIRS IN YOUR COUNTRY
Come meet our representatives at a fair near you.

UTWENTE.NL/MAG/FAIRS

EXPERIENCE STUDENT LIFE
SIGN UP AS A 'STUDENT FOR A DAY'
Do you want to experience first-hand what it's like to study at UT? Share a typical day in the life of a UT student with someone who is enrolled in a programme you are interested in! Choose your own date on weekdays between mid-October and May.

UTWENTE.NL/MAG/STUDENTFORADAY

CAMPUS EXPERIENCE FESTIVAL
APRIL 2022
Come catch that campus feeling

PERSONAL CONTACT
WE ARE HERE FOR YOU!
Do you have any questions, are you still not sure, or do you just want more information?

- ✔ Call, chat or mail our Student Services Contact Centre **utwente.nl/mag/contact-en**
- ✔ Request a personal interview with one of our study advisers. **utwente.nl/mag/sacc-en**
- ✔ Skype with a student of a programme of your interest. **utwente.nl/mag/skype**

FOLLOW US ON SOCIAL MEDIA!

@UTWENTE
@UTWENTE
@UTWENTEEN

UTWENTE.NL/MAG/ORIENTATEYOURSELF

SNEAK PREVIEW

You want to know if this university is a good fit for you, and we want to know more about who you are. Do you mind if we take the lead? If you choose the University of Twente (UT), you're heading for an international, technical university with five distinguishing features.

HUMANS AND TECHNOLOGY ON THE SAME TEAM

The future of people is technology. And the future of technology? People! Our focus on people is as striking as our multidisciplinary, application-oriented approach. We call it High Tech, Human Touch.

ONE OF THE BEST RESEARCH UNIVERSITIES

Invariably, UT scores high on independent, international rankings. Start your journey near the top!

INTERNATIONAL COMMUNITY

Many international students and staff come to Twente, but the opposite is also true: we have a lot of contact with universities and companies abroad, and we will encourage you to complete part of your studies in another country. The experience will help you to grow professionally and personally, to establish a broad foundation, and to become a true, global citizen.

MOST ENTREPRENEURIAL UNIVERSITY

We recognise the value of typically human traits such as creativity, innovation and courage, and we foster their development. No wonder more than thousand successful start-ups have been initiated here so far, including Booking.com and Takeaway.com. What start-up will you launch?

THE ONLY 'ALL-IN' CAMPUS IN THE NETHERLANDS

Your time as a student will be unforgettable at our beautiful campus, where you can study, live, get active and enjoy yourself. It is a 'smart living lab', where people and technology bring out the best in each other.

WHAT WILL YOU SET IN MOTION?

At UT, we encourage students to actively engage in student life. There are plenty of activities on campus and in Enschede, all organised for and by students. The most well-known examples are our multidisciplinary student teams, such as Green Team Twente and Solar Team Twente. These teams bring students together to build sustainable mobility solutions and to compete against teams from other universities all over the world.
utwente.nl/en/student-teams

STUDENTS & STAFF
IN 2020

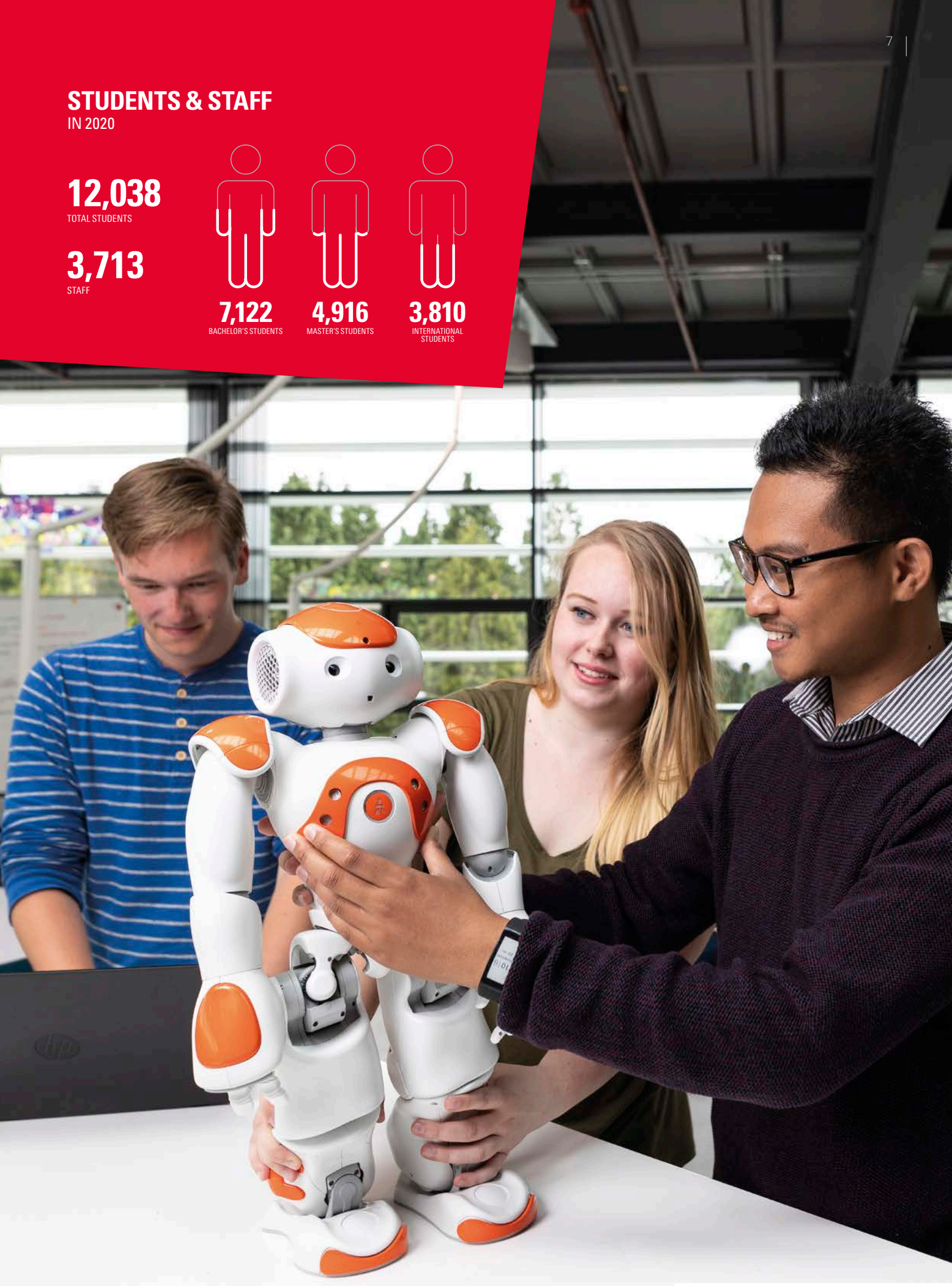
12,038
TOTAL STUDENTS

3,713
STAFF

7,122
BACHELOR'S STUDENTS

4,916
MASTER'S STUDENTS

3,810
INTERNATIONAL STUDENTS



UTWENTE.NL/EN/BACHELOR

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?

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.

MOST DUTCH PEOPLE SPEAK ENGLISH

The Netherlands is a small country and home to over 17 million people. Many European capitals are within easy reach: Berlin and Brussels are four-and-a-half hours away by train and a short flight from Amsterdam will take you to London, Paris or Madrid. 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.

GET A BICYCLE

Public transport is well-organised and safe. To travel the Dutch way, of course, get a bicycle. During our introduction days, we can help you buy one.

Food Truck Festival in Enschede

ENSCHEDE, A BUSTLING STUDENT CITY

Enschede is a city of knowledge and innovation, with high tech campus Kennispark Twente and a college, a conservatory, a pop academy, an international school and an Arts school – all next door to UT. There are students everywhere, and cool events to enjoy all year round, such as Freshtival at Rutbeek park, the superhip Gogbot and, of course, the big King's Day Festival.

FOR SHOPAHOLICS

Enschede offers you the most versatile choice of shops in the Eastern Netherlands. The weekly street market attracts a lot of visitors from the region and from across the German border. The city centre offers a pleasant mix of department stores, boutiques, and food and drinks.

CHILL OUT

Right in the middle of the city centre you will find De Oude Markt: the most convivial square in the Netherlands. Around the church, the so-called Grote Kerk, are several cafés, restaurants, bars and clubs. During hot summer days the terraces quickly fill up with people enjoying the sun and drinks. In the evenings, the restaurants and bars offer a great place for socialising and enjoying yourself.

LAST BUT NOT LEAST: STUDENT HOUSING IN ENSCHEDE, COMPARED TO OTHER STUDENT CITIES IN OUR COUNTRY, IS DOWNRIGHT AFFORDABLE!

ENSCHEDE IN NUMBERS

>159,000
POPULATION

>150
NATIONALITIES

>30%
PERCENTAGE STUDENTS

9
THEATRES

3
CINEMAS

25
SPORTS FIELDS & TENNIS COURTS

WONDERING WHAT YOU CAN DO **IN ENSCHEDE?**

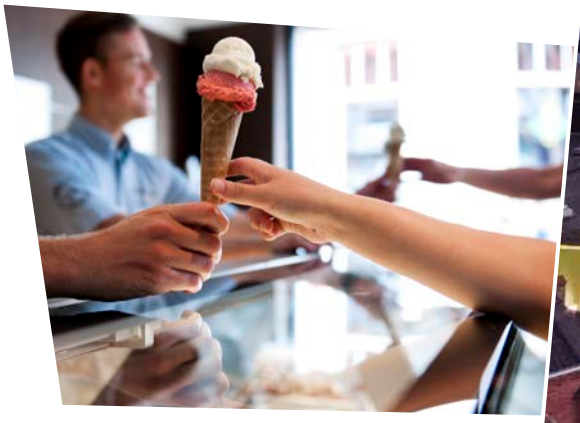
THE FIVE GREAT SURPRISES OF VLADISLAV

01 VISIT THE OLD CITY CENTRE

Explore all the small intertwining streets at De Oude Markt and see the historic buildings. Hear the local church bells start to ring and really imagine yourself being in a fairy tale.

02 ENJOY A VAN DER POEL ICE CREAM

On warm sunny days, treat yourself to a delicious ice cream at the Van Der Poel shop, one of Enschede's icons. Even better: share the experience with friends and make a day of it!



03 GO ICE SKATING AT IJSBAAN TWENTE

In the colder months, try out ice skating on the big ice rink, one of the fastest in the world. Be sure to bring gloves, as it can get quite cold inside – and be prepared for some tumbles.

04 JOIN IN THE ACTIVITIES OR RELAX AT THE PARK

There are some great national parks that you can visit in the Enschede area. My favourite is Smiley; a great place to play sports and outdoor games! It's only a fifteen-minute bike ride away from the city centre.

05 HAVE FUN AT KRAZY KANGAROO

Need some adventure? Definitely visit this jumping heaven. Bring your friends and challenge each other to see who can perform the coolest tricks.

VLADISLAV AVRAMOV, BULGARIA

BACHELOR'S STUDENT IN TECHNICAL COMPUTER SCIENCE

"

Since I arrived in Enschede I can't stop thinking of the breathtaking city. From the city center and all people hanging out there to the calm and peaceful parks in the outskirts. But most of all I'm surprised by how much there is to do in such a small, charming city. People can enjoy themselves everywhere from very good restaurants and cafes to outdoor gyms and parks.

OUR CAMPUS
UNIQUE IN THE NETHERLANDS

One of University of Twente's crown jewels is undoubtedly our campus. A sustainable, well maintained parkland dotted with top facilities, the campus has as many activities to offer as a small city. It's a dynamic community to live and work in, where more than 11,000 students and 3,400 staff members – representing around 100 nationalities – use the latest knowledge and technology for a better future. And this campus could also be yours!

EVERYTHING FROM NANOLAB TO STARBUCKS

The campus covers 146 hectares – approximately 200 football fields – where you can find everything you need to learn, work and live.

From libraries and laboratories to fitness facilities and sports fields. You can play almost any sport imaginable here, such as baseball, beach volleyball, archery and even *muggle quidditch*.

UTWENTE.NL/EN/CAMPUS

TAKE A VIRTUAL TOUR, **DOWNLOAD OUR CAMPUS APP**

Available on the App Store | GET IT ON Google Play

146
AREA IN HECTARES

3,000
STUDENT APARTMENTS

384
LAB FACILITIES

40
SPORTS ASSOCIATIONS

18
CULTURAL ASSOCIATIONS

ELKE CROONEN

MASTER'S STUDENT IN TECHNICAL MEDICINE

”

I live in the city centre of Enschede and study on campus. There is always someone with whom I can cycle to the campus. It is also very convenient that you have all lectures and seminars in the same place. This way, you never have to travel a long time between lectures. There is also plenty to do if you want a break: sit on the terrace at a cafe, shop for groceries in the supermarket, eat a sandwich at the Subway, go to the gym - so you have had your daily exercise again :) - or picnics in the sun!

WHY STUDY AT UT?

During your studies at the University of Twente, you learn loads by completing courses. Our university uses project-based learning, which promotes the active application of this knowledge to solve modern-day problems. This gives you the opportunity to roll up your sleeves and get stuck in! Learn everything there is to know about subjects YOU find interesting. In addition to project-based education, you will also work on your development outside of class in a variety of ways; from evaluating your education with your teachers to organising all kinds of activities with your fellow students.

BJORN JONGEBLOED
MASTER'S STUDENT OF APPLIED PHYSICS

WHY DO I TEACH AT UT?

VICTORIA DASKALOVA
ASSISTANT PROFESSOR IN LAW, GOVERNANCE & TECHNOLOGY

The interaction in the classroom – between students and teacher but also among the students - is an important part of education. You can often reach a proper 'aha moment' only if you are pushed to think on the spot. Moreover, it creates a nice energy in the classroom and allows the lecturer to hear the students' ideas. *Source:* ***www.utoday.nl***

FOUR REASONS TO STUDY AT UT

01 You will learn how to work with others in changing teams and discover your role (or roles) in a team.

02 You will make the most of and enjoy many approaches to learning, including challenging, lifelike team projects.

03 You will explore the intersection of science, technology and society.

04 You will become an entrepreneurial, independent professional, who is constantly learning and growing.

CHALLENGE YOURSELF DURING YOUR BACHELOR'S

If you are among the top 10% performers in your programme, you can take part in an Honours track alongside your bachelor's. This involves taking an extracurricular programme in which you learn to combine technology, engineering and social sciences. It is a great way of learning how to quickly respond to societal challenges.

Hungry for more knowledge?
We offer three types of Honours programmes:

BACHELOR'S HONOURS PROGRAMME

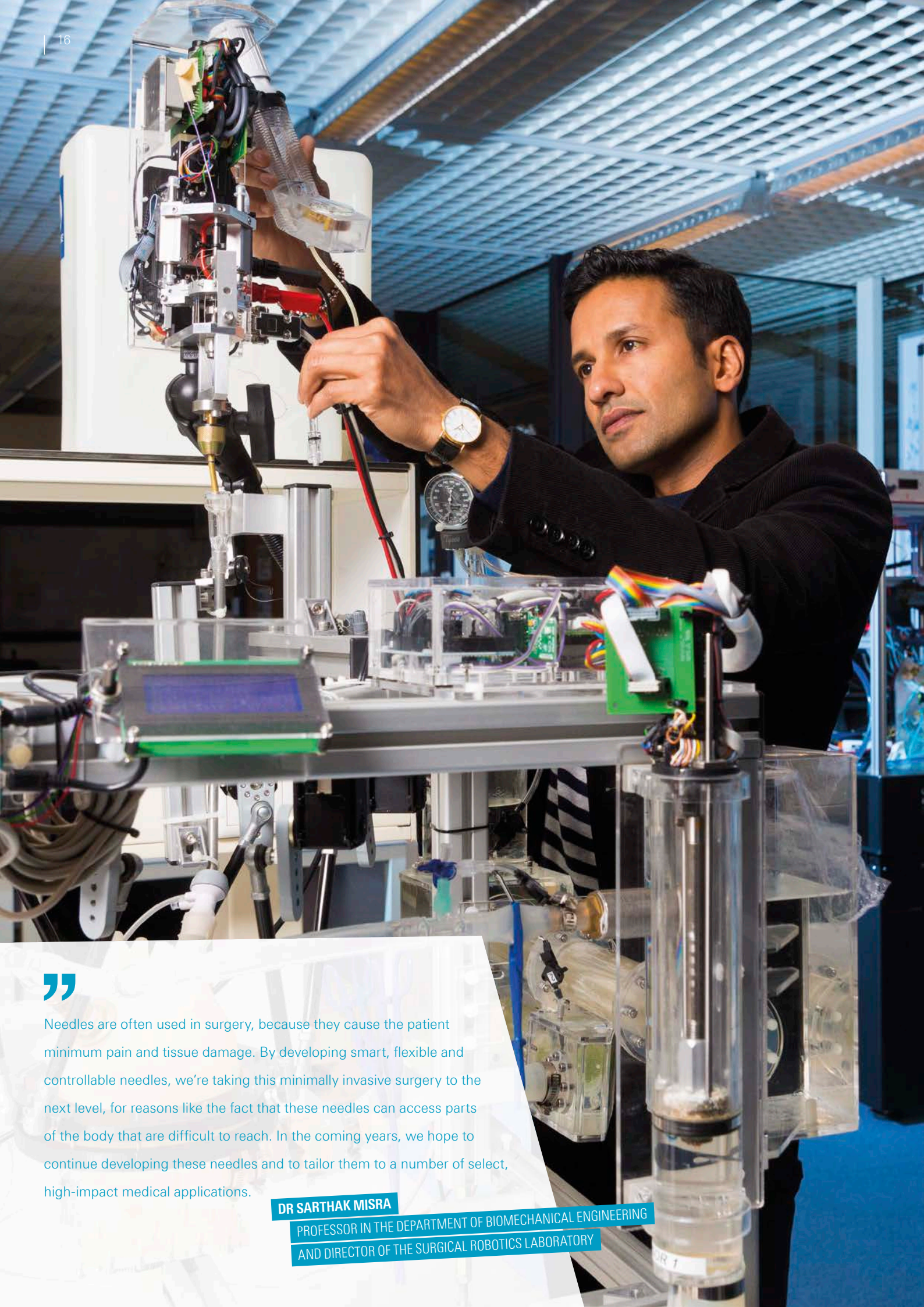
The Honours programme compliments and broadens your normal bachelor's. In about 1.5 years, you will follow one of the multidisciplinary tracks, in which you will work together with students from other programmes. You will also receive intensive guidance from researchers from various academic disciplines. The Bachelor's Honours programme starts every year in February, and it is open to all bachelor's students.

A STAR OR PLUS PROGRAMME

Depending on what you are studying, you can take a supplementary Star or Plus programme:

✔ STAR programme – If you're studying Communication Science, International Business Administration, Industrial Design Engineering, Management, Society & Technology or Psychology, then you can take extra modules, working on a project designed to deepen your knowledge.
✔ PLUS programme – This programme is available to students of the Dutch-taught programme Applied Physics. In the PLUS programme you will dive deeper into a specialised topic.

UTWENTE.NL/HONOURS



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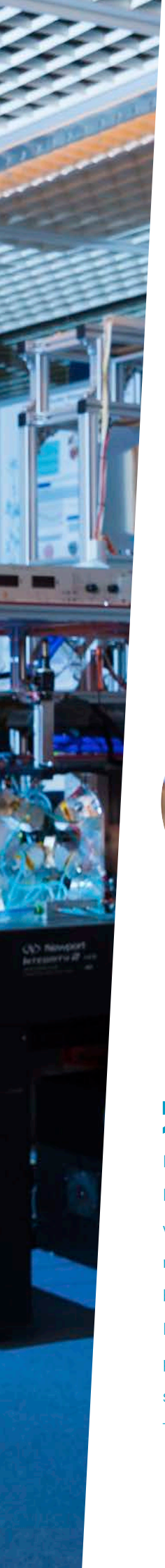
Needles are often used in surgery, because they cause the patient minimum pain and tissue damage. By developing smart, flexible and controllable needles, we're taking this minimally invasive surgery to the next level, for reasons like the fact that these needles can access parts of the body that are difficult to reach. In the coming years, we hope to continue developing these needles and to tailor them to a number of select, high-impact medical applications.

DR SARTHAK MISRA

PROFESSOR IN THE DEPARTMENT OF BIOMECHANICAL ENGINEERING AND DIRECTOR OF THE SURGICAL ROBOTICS LABORATORY



LEARN FROM LEADING SCIENTISTS

OUR RESEARCH IMPACTS SOCIETY

Studying at UT means studying at a young and entrepreneurial research university, where scientists, lecturers and students engage in tackling the global societal challenges of today and tomorrow. We're involved in giving direction to the digitalisation of society, in making technology in the healthcare sector better and more personal, in developing and using smart materials and smart industries, and in making our rapidly changing world more resilient.

”

For a long time, technology has mainly focused on the basic form of speech recognition: on whát a person says. However, I feel automatic speech recognition is ready for the next level. For me, the interesting part is the layer beyond words, the emotions or mental state of a speaker. Are both speakers on the same page? What is the meaning of a certain laugh? That's important information because in communication it's all about nuance. About silences, a sigh, or a laugh of a person. My ultimate goal is to have a normal conversation with a machine. As if talking to a human being.

DR KHIET TRUONG
ASSISTANT PROFESSOR HUMAN MEDIA INTERACTION

”

Material science plays a central role in the search for better storage solutions. In the NanoLab at the MESA+ Institute for Nanotechnology, my fellow scientists and I, along with students, explore technological breakthroughs by studying and designing new materials at nanoscale. One such breakthrough is the solid-state battery. In conventional batteries, two poles – the anode and the cathode – are joined by a liquid, the electrolyte. Replacing the liquid with a solid yields higher energy density and more power. This is partly caused by the fact that you do not need cooling or protective equipment in a solid-state battery, as the solid cannot leak, it is harmless and insensitive to overheating. That leaves more room for energy storage.

DR MARK HUIJBEN
ASSOCIATE PROFESSOR 'NANOMATERIALS FOR ENERGY CONVERSION AND STORAGE

1,883 EXCELLENT SCIENTISTS & 384 LAB FACILITIES ON CAMPUS

Though small in scale, UT is a world-renowned top research university and home to no fewer than 1,883 scientists and 384 lab facilities. Here's just a glimpse of our facilities, faculties, and research institutes – and the many cross-links that make us standout as societal impactors.

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

BRAM NAUTA:
INTEGRATED CIRCUIT DESIGN

FACULTY
ELECTRICAL ENGINEERING, MATHEMATICS AND COMPUTER SCIENCE

NANOLAB
1,250 m^2 state-of-the-art infrastructure which forms the heart of cutting-edge research in micro- and nanotechnology.

DESIGNLAB
A creative & transdisciplinary ecosystem, connecting science and society through design

UNIVERSITY OF TWENTE. | MESA+ INSTITUTE

UTWENTE.NL/MAG/MESAPLUS

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

SUZANNE HULSCHER
MARINE & FLUVIAL SYSTEMS

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

DETLEF LOHSE:
PHYSICS OF FLUIDS

FACULTY
ENGINEERING TECHNOLOGY

VIRTUAL REALITY LAB
High-tech environment to facilitate multi-stakeholder decision-making.

FACULTY
SCIENCE AND TECHNOLOGY

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

RESEARCH
BIOMEDICAL PHOTONIC IMAGING
Developing optical diagnostic tools for mother and child care

NIENKE BOSSCHAART
BIOMEDICAL PHOTONIC IMAGING

UNIVERSITY OF TWENTE. | DIGITAL SOCIETY INSTITUTE

UTWENTE.NL/MAG/DIGITAL-SOCIETY

CAROLINE GEVAERT

GEO-INFORMATICS AND RESPONSIBLE ARTIFICIAL INTELLIGENCE

RESEARCH

MAP SLUMS MORE ACCURATELY.

Make the use of AI in geo-spatial algorithms more responsible, fair, and transparent for society.

MARIEKE HUISMAN

HUMAN MEDIA INTERACTION

RESEARCH

FORMAL METHODS AND TOOLS

Reliability and security of concurrent and distributed software

FACULTY

GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

RESEARCH

PHILOSOPHY OF TECHNOLOGY

The mediating role of technology in knowledge, ethics, and metaphysics.

GEOSCIENCE LABORATORY - UAVs

Improving the way drones navigate, communicate, and analyse their environment.

FACULTY

BEHAVIOURAL, MANAGEMENT AND SOCIAL SCIENCES

PETER PAUL VERBEEK

PHILOSOPHY OF HUMAN TECHNOLOGY RELATIONS

BMS LAB

High tech environment for innovative solutions to social challenges.

EXPERIMENTAL CENTRE FOR TECHNICAL MEDICINE

A simulated authentic professional environment in a high-tech and safe learning space.

UNIVERSITY OF TWENTE. | TECHMED CENTRE

UTWENTE.NL/MAG/TECHMED

SARTHAK MISRA

SURGICAL ROBOTS

RESEARCH

SURGICAL ROBOTICS

Research on robotically guided, smart, and flexible surgical needles.

OUR PARTNERS

FRAUNHOFER PROJECT CENTER

The Fraunhofer Institute, a European leader in applied scientific research, has 69 centres worldwide. One of those is located on our campus. The goal of 'FPC@UT' is to bridge the gap between science and smart industry.

UTWENTE.NL/FRAUNHOFER

MAX PLANCK CENTER

The Max Planck Society is a leading name in research with a role in over 2,500 projects and 5,000 international partners in over 100 countries. We collaborate with two Max Planck Institutes in the field of complex fluid dynamics.

UTWENTE.NL/MAX-PLANCK-CENTER

FIND YOUR FAVOURITE STUDY SPOT

At UT, you won't spend all your studying and project hours alone in your dorm or in a classroom. You can find great facilities for projects, and places to sit down and study, all over the campus.

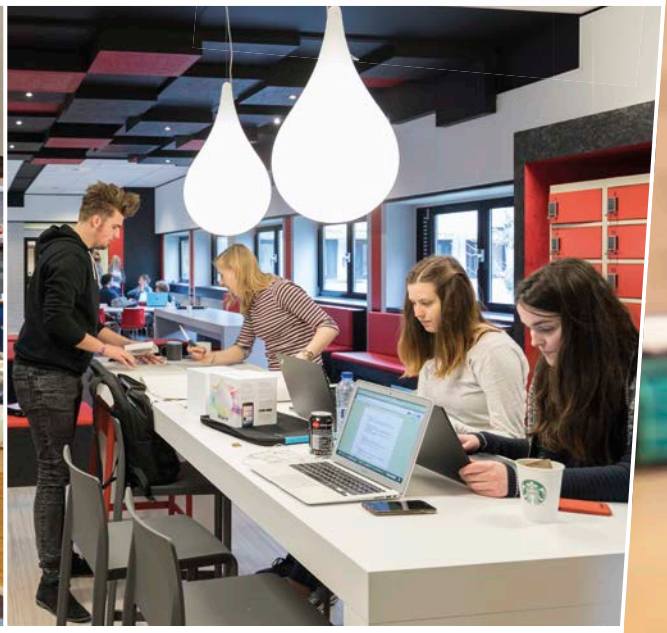
THE UNIVERSITY LIBRARY

The University Library is in the centre of the campus. Here you will find scientific collections on all the educational and research areas offered at UT – a great place to study, work or read professional literature in peace and quiet.

UTWENTE.NL/LIBRARY

PROJECT SPACES

Are you looking for a quiet place to study, or to work on your project? The project rooms are the perfect solution. And each one comes with a printer and a coffee machine!



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Studying takes up a lot of your time, among other activities. That's why it is important to have a place where you can study for an exam or work on a project. UT offers many opportunities for students to find their own favorite place to study. Personally, I think the University Library, located in the Vrijhof building, is the most suitable place for earning my credits. The library has a public space where it's always quiet and you can focus on your work. You can also book project rooms where you can consult with each other, if necessary. This makes the library my favorite place to study.

JULIAN WETS
BACHELOR'S STUDENT IN INDUSTRIAL DESIGN ENGINEERING

”

During your studies, you will inevitably come to a point at which you have to make decisions. Whether it is about your elective modules, or which master's to take, Career Services can help you. After a few interviews and tests, I soon found my direction. This support did not only give me an idea of what I was interested in, but it also helped me see which directions not to take. Based on the talks I had with Career Services, I was able to finish my subjects and choose my master's.

ROELAND HEERES, THE NETHERLANDS
BACHELOR'S STUDENT IN ADVANCED TECHNOLOGY

WHAT WILL YOUR FUTURE LOOK LIKE?

Many of the small choices you make as a student can influence your future after finishing your degree. For example, the subject you choose for your graduation assignment, or whether or not you study abroad. Our Career Services team is here to help you in thinking about your future – so that your career gets off to a flying start as soon as you get your diploma!

THE CAREER SERVICES TOOLKIT

CAREER ADVICE

DO YOU HAVE QUESTIONS OR DOUBTS ABOUT YOUR CAREER?

You can benefit from our large, expert network of study and student associations, student organisations, faculties and alumni. We will gladly connect you with the right people, inside or outside UT – people who can help you as you map out your future.

STUDY COMPASS

ARE YOU THINKING ABOUT STOPPING, OR SWITCHING PROGRAMMES?

Do you have to change direction because of a negative recommendation on continuation of studies after your first year? Or are you struggling to decide on a master's? Our team can become your personal compass. Through the interviews, tests and exercises we offer, you will quickly discover your interests and capacities. Together with our advisers, you can then discuss your results: hands-on and personal.

USEFUL WORKSHOPS

TAKE PART IN USEFUL WORKSHOPS TO DEVELOP YOUR JOB APPLICATION SKILLS:

- ✔ Personal branding
- ✔ LinkedIn tips & tricks
- ✔ Writing your CV
- ✔ Interview skills
- ✔ Salary negotiation

UTWENTE.NL/CAREERSERVICES

THESE PEOPLE HAVE GONE BEFORE YOU

UT students fan out all over the world after graduating: from Berlin to Beijing and from Jakarta to San Francisco. To date, there are some 51,000 UT alumni at work in science, business or government roles.

EMILE NIJSSEN & STEFAN WITKAMP, ALUMNI OF CREATIVE TECHNOLOGY

CURRENT JOBS: CREATIVE DIRECTOR AND COMMERCIAL DIRECTOR AT THEIR OWN FIRM, ATHOM B.V.

”

We met at UT. During our bachelor’s graduation project, we developed a pitch video and a Kickstarter crowdfunding campaign for Homey, an app-based device with which you can control every electrical appliance in your home – from your coffee machine to your television. Thanks to great support from UT and with the aid of various startup networks, we were able to build a solid foundation for Homey. A few years have passed since we graduated, and business is booming.

WHAT IS AN ALUMNUS?

You are an alumnus/alumna when you successfully complete an academic programme, such as a:

- ✔ Bachelor's or master's
- ✔ PhD or PDEng position

Alumni is plural for:

- ✔ Alumna (female)
- ✔ Alumnus (male)

DIGITAL EXPERT

AT THE DUTCH NATIONAL POLICE HIGH-TECH CRIME UNIT

"During my Bachelor's in Technical Computer Science, I did a minor in Law. Then I did my graduation assignment with the Dutch National Police, working on infringement of intellectual property. I worked on a case study and discovered what criminals do, what goals they have, and how we can put that into a model – with the purpose of finding ways to prevent them from achieving their goals. I enjoyed this project so much that I wanted to do a Master's in Computer Science, specialising in Cyber Security. Now I am part of the High-Tech Crime Unit, and I still think it's really cool. I'm glad that I chose the right specialisation during my studies."

Jarmo van Lenthe, alumnus of Technical Computer Science

PHD STUDENT

AT THE FOUNDATION FOR FUNDAMENTAL RESEARCH ON MATTER (FOM) AT UT

"I work as a PhD student at FOM, a foundation that promotes fundamental research in physics. As a PhD student, I am part of a University of Twente research group, and I regularly work at the NanoLab. I research the interaction between magnetism and a special type of conduction, which can be found in 'topological insulators'. I laid the foundation for this work in my Applied Physics studies. And now I get to put it into practice!"

Denise Leusink, alumna of Applied Physics

COMBUSTION ENGINEER

AT OPRA TURBINES

"At work I'm constantly using what I learned at UT. I graduated in 2013 and now work as a Combustion Engineer at OPRA Turbines, a company that builds large gas turbines used to generate energy for gas fields, oil platforms, industrial sites – and the 2014 Winter Olympics. My job is to make sure it is technically feasible for us to burn our clients' fuel. No two days are the same. My responsibilities include technical support for the sales department, making CFD models (Computation Fluid Dynamics, or simulating currents with the help of a computer), and testing fuels in our combustion lab or in a gas turbine. My ambition is to contribute to exciting, innovative technology. At work I'm constantly using what I learned during my studies. All the theory keeps coming back, yet the practical skills integral to UT's approach are even more important, such as problem-solving and project-based work. Mechanical Engineering at UT gives you an excellent foundation. When you graduate you are fully qualified and equipped for the job market."

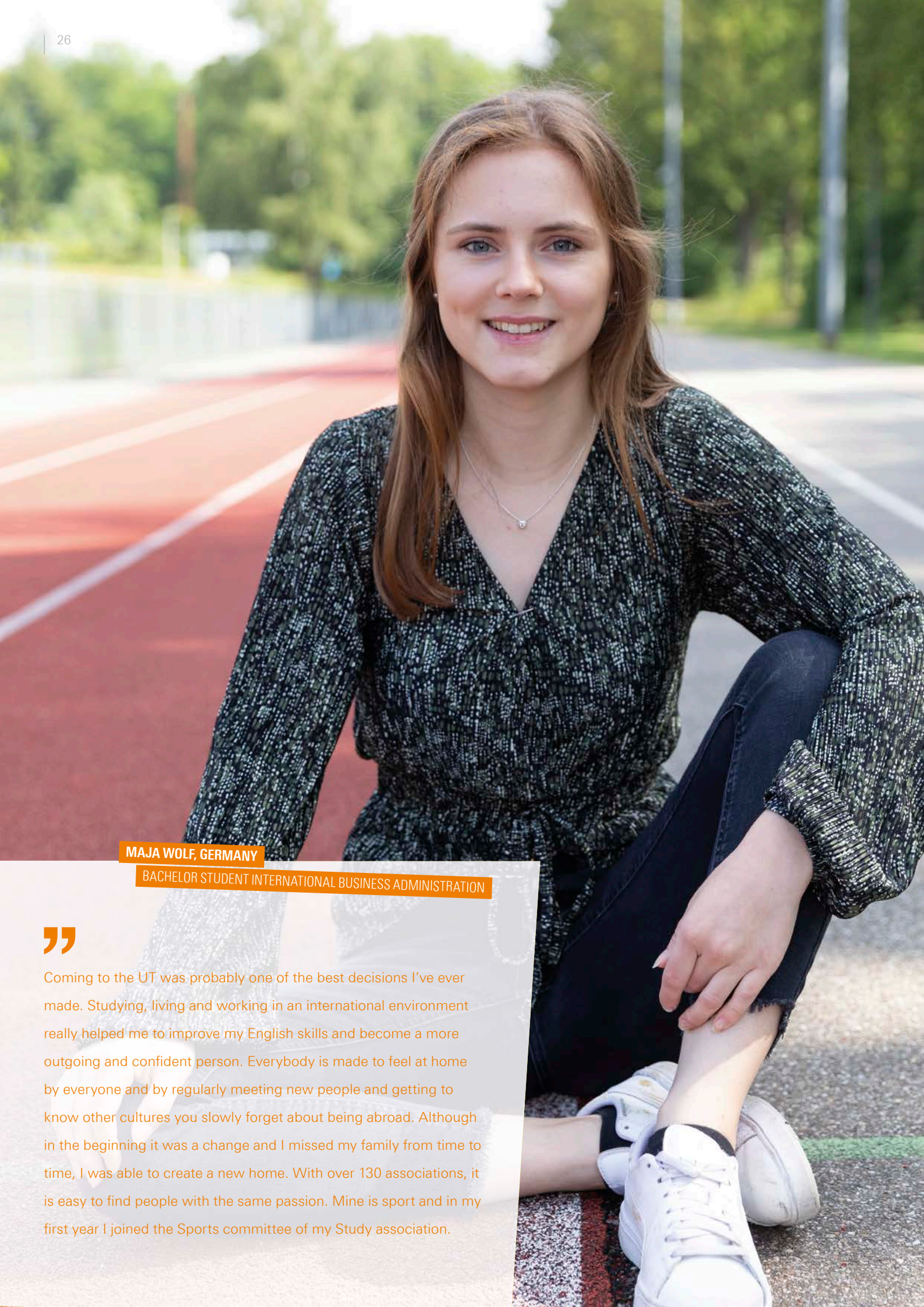
Thijs Bouten, alumnus of Mechanical Engineering

GROUP CONTROLLER

AT ENTORIA ENERGY

"Our company facilitates investments in sustainable energy. My studies turned out to be very useful and I use both theory and practice in my daily work. My success is largely the result of the way I strike a balance between theory and practice, a skill I acquired by combining my studies and extracurricular work during my time as a student. It's great to be an entrepreneur. I have just returned from meetings with the government of Laos, for example, and in Ukraine we have begun developing software and we have already received invitations from industry partners, investors and developers. The international vibe at the University of Twente served as a great starting point for my career."

Vincent Bakker, alumnus of Industrial Engineering & Management



MAJA WOLF, GERMANY

BACHELOR STUDENT INTERNATIONAL BUSINESS ADMINISTRATION

”

Coming to the UT was probably one of the best decisions I’ve ever made. Studying, living and working in an international environment really helped me to improve my English skills and become a more outgoing and confident person. Everybody is made to feel at home by everyone and by regularly meeting new people and getting to know other cultures you slowly forget about being abroad. Although in the beginning it was a change and I missed my family from time to time, I was able to create a new home. With over 130 associations, it is easy to find people with the same passion. Mine is sport and in my first year I joined the Sports committee of my Study association.

WHEN YOU ARRIVE AS AN **INTERNATIONAL STUDENT**

Being an international student can be scary. But at UT, you will encounter a welcoming environment. On arrival, you'll meet your peers during the 'Kick-In introduction week', where you can get to know Enschede and the campus. And joining the buddy programme, which links you as a new arrival to an experienced student, will also help you to settle into campus life.

JOIN A STUDY ASSOCIATION!

- ✔ Participate in varied educational and fun activities
- ✔ Get discounts on your study books
- ✔ Get to know fellow students in your own year and beyond

JOIN AN INTERNATIONAL STUDENT ASSOCIATION

At UT, you will become part of a colourful mixture of students from around the world. A strong network of student-run international student associations will be on hand, dedicated to helping you feel at home and make friends. There are more than 130 associations on campus open to everyone, ranging from sports and study, to performing arts and business. There are also international student associations based on culture or country, such as:

- ✔ La Voz Latin American student association
- ✔ Indian Student Association
- ✔ IrNut Iranian student association
- ✔ Romanian Student Association
- ✔ Pakistani Student Association

MEETING GROUND: THE GLOBAL LOUNGE

The international flavour of UT is part of what makes us special. At the very centre is our Global Lounge. Anyone can hang out here, but it's also the space where internationally-oriented events take place.
You're welcome to organise your own events here, too!

LEARN DUTCH

While you're here, you might want to pick up some new skills – like learning Dutch! That's what the UT Language Centre is here for, offering workshops and courses that cover a range of topics, from language tuition to presentation skills and academic writing.

UTWENTE.NL/UTLC



SWEAT IT OUT!

UT AND SPORTS GO HAND IN HAND

On our campus, you can train your body as well as your mind! Whether you want to play sports or stay active in some other way, there are plenty of ways to do so. Are you into team sports? Dozens of clubs are eager for you to join their team. Would you rather work out alone? How about climbing, fitness or swimming?

FROM ATHLETICS TO WATER POLO

We have fourty sports clubs and excellent tennis courts, football and hockey fields. From wall climbing to wilderness survival, from football to water polo, and from basketball to billiards – we challenge you to make your choice! At the on-campus sports centre, you will find a complete fitness centre and an indoor swimming pool, among other amenities. Outside, you can enjoy the tennis courts, the open-air swimming pool, the racecourse, or our multi-sport fields, to mention just a few options. Your favourite (new) sport is right here waiting for you.

COOL COURSES AND GROUP LESSONS

Are you curious about tai chi, yoga or meditation? Sign up for group lessons – a fun way of getting active with your friends! There are all kinds of lessons on offer. Why not try body balance, Pilates, spinning, or Zumba?

YOUR ADMISSION CARD TO FITNESS & CULTURE

DO YOU LIKE TO WORK OUT REGULARLY, OR TO VISIT THE CINEMA OR THEATRE EVERY WEEK?

Then why not buy the UnionCard? You can get it for fifty euros a year (fourty euros if you order before 15 October). The card offers all kinds of benefits, such as free swimming in Enschede, and free use of our music studios. It is also a good way of reaching out to fellow students! **su.utwente.nl/en**

”

D.R.V. Euros is a wonderful rowing club for all students who want to enjoy both sports and fun of a student association. At D.R.V. Euros you can plan your own training courses at your own times. There are countless committees you can join, to expand your CV with extracurricular activities. D.R.V. Euros really feels like a second home to me. I even chose to join their board, which is why I currently do not row in a team. D.R.V. Euros offers a fantastic place to exercise, relax, and of course a lot of fun next to your studies!

MYRTHE VON DEN BENKEN
BACHELOR'S STUDENT IN PSYCHOLOGY

RAMON WANINGE

MASTER'S STUDENT IN APPLIED PHYSICS

”

In addition to the various study programmes, UT also offers space for other ways to develop yourself, for example in the field of sports or culture. I have always played football, so I continued to do that, but I have always wanted to do “something with theatre.” There are plenty of opportunities here on campus. In my fourth year, I was the only one of my study programme to start improvisational theater at T.S.V. Pro Deo and I still like it very much. I even did my first performance after only half a year (!) of theatre lessons, with only positive reactions afterwards! When I started, I didn’t know anyone at Pro Deo, but I’ve been looking forward to Thursday night improvisation theatre all week. Just something different than study, a lot of improvisation and afterwards having a drink with friends.

EXPRESS YOURSELF!

Performances, lectures, concerts, stand-up comedy, dance recitals, exhibitions and creative courses. Culture occupies an important place on campus. Watch, listen, or get on stage yourself!

EXCITING ASSOCIATIONS AND COURSES

Do you want to stimulate or develop your creativity? There are eighteen cultural associations you can join. Try stand-up comedy, ballet, salsa, or photography. There are also several orchestras, as well as a juggling and a games association! You can join all year round. Or sign up for one of our many creative courses, such as welding, creating jewellery from waste, or drawing.

THE VRIJHOF

The building that breathes arts and culture the most on campus is the Vrijhof. Here you can find the University Library, our theatre and meeting rooms, the Theatre café, practice rooms for piano and pop music, work spaces, a ballet studio, exhibition spaces and more.

DRESS UP YOUR ROOM

At the Art Library, you can borrow paintings, silk screens and photos free of charge. There are over 800 works of art in circulation.

WHERE WILL YOU LIVE?

If you are going to study, you can stay at home, or move out on your own. If you want to move out, there are again two options: living on campus or in the city. It's up to you!

YOUR NEW HOME ON CAMPUS

The groups of students living together on campus are often larger than those in city student housing. On campus, you may live with twelve people, but there are also groups of just four or eight people. You can also live by yourself on campus – in your own apartment or self-catering room.

STUDENT HOUSING IN THE CITY

In the city, you usually share housing with two to six people. The advantage of looking for a room in Enschede: there is plenty on offer. Tip: If you start looking in time, you are almost assured to have your own room in September.

START HOUSE-HUNTING

You can start your search for a room or apartment yourself at **Roomspot.nl/en**: a virtual platform offering student housing in the cities of Enschede and Hengelo. Make sure you check the offers posted by former students on **UT Facebook Marketplace**, too: a members-only group open to prospective students.

GUARANTEED HOUSING

If you live outside the EU, your new house or room is guaranteed. We advise you to accept the first offer you get. You can take a lease for a minimum of one month to a maximum of one year.

UTWENTE.NL/MAG/HOUSING-EN

ENSCHEDE HAS BEEN RANKED BEST STUDENT CITY IN THE NETHERLANDS

- ✔ AFFORDABLE AND WIDE RANGE OF HOUSING
- ✔ SAFE LIVING ENVIRONMENT
- ✔ PLENTY OF EXCITING EVENTS AND FESTIVALS

”

There are a variety of student housing options in Enschede. I personally have experienced both living in the campus and city centre, living alone and sharing a house with friends during my study. At the moment, I am sharing a studio apartment with my friend on campus. I found both locations to have their own perks. When you live in the city centre, everything is right on your doorstep or a few minutes bike ride away. It is ideal if you prefer not to travel every time you want a nice meal out or want to meet up for drinks with friends at the terrace. The campus is reachable by bike 15 minutes from the city centre. I find living on campus to be great since all the facilities you need, like the gym, outdoor sports facilities, supermarkets, library and also the lecture halls are located within the campus vicinity and within walking distance. The campus is also surrounded by nature and there are many walking trails and parks to enjoy them!

HENI JU

MASTER STUDENT MECHANICAL ENGINEERING

WHEN YOU NEED A HELPING HAND

Sometimes you need a little bit of help. A nudge to help you successfully complete your studies. If you have personal circumstances or are experiencing personal problems that are affecting your studies or your well-being, feel free talk to our advisers and counsellors.

YOUR STUDY ADVISER

When you start studying at UT, your first point of contact will be your study adviser. He or she will monitor your progress and help you deal with academic and study-related issues, such as study choices, planning and task completion.

STUDENT AFFAIRS, COACHING AND COUNSELLING

Are personal circumstances, such as illness or disability, hindering you in your studies? Student Affairs, Coaching and Counselling (SACC) can help you find a suitable form of support. In case of mental issues such as depression, homesickness, problems with parents, relationships or fellow students, or doubts about your study choice, you can see our student psychologists free of charge. Consult the career counsellor if you have doubts about your choice of study and consider stopping or changing your programme of study. When choosing a master's, you can call in the career counsellor.

You can consult the student counsellor if you have any questions about your rights and obligations, student finance and financial support, coaching, and study facilities.

PERSONAL DEVELOPMENT TRAINING

Are you suffering from stress, procrastination or exam anxiety? Are you struggling to draw your boundaries? Why not take a mindfulness or self-management training? It will help you grow!

UTWENTE.NL/MAG/SACC-EN

GABRIEL, BRAZIL
MASTER'S STUDENT IN INDUSTRIAL DESIGN ENGINEERING

"After finishing my professional degree, I chose to do the Master's in Industrial Design Engineering. I started with the Pre-master's. I had heard that a pre-master's is very difficult compared to the master's programme itself. And that is how I experienced it. The work load, together with my personal situation, was a killer combination. I felt increasingly tired, less motivated, and ended up having bouts of depression. By coincidence, a friend told me about a psychologist for UT students. At that point, I realised it was time I got help. That's when I got in touch with Student Affairs Coaching & Counselling. I learned a lot from the talks I had. About myself. About the world. About what to hold on to. And about what to let go of. I learned to accept the fact that I have feelings, and that it's okay to have periods in which you can't feel them right away. I also learned to listen better to my feelings. The decision to contact SACC helped me through a period of anxiety, pain, sleepless nights, and worries about the future. I could not have done that on my own. I would advise everyone to talk about what they are experiencing, especially if things aren't going well. Prevention is better than cure.

STEP-BY-STEP PLAN

FROM WONDERING TO REGISTERING

A lot depends on what you decide to study. That's why you need to take the time to discover which university and degree are best for you. Do you need help deciding? Follow this step-by-step plan!

STEP 1 DISCOVER YOUR TALENT

WHAT ARE YOU ENTHUSIASTIC ABOUT? WHAT ARE YOU GOOD AT?

Take note of your findings, take a study choice test, and talk to your teacher(s). Did you know that UT organises orientation study choice activities for secondary school students?

STEP 2 START GETTING ORIENTED

COLLECT ALL THE AVAILABLE INFORMATION ON PROGRAMMES, COLLEGES AND UNIVERSITIES.

See which bachelor's match your interests. You may want to visit fairs: **utwente.nl/mag/fairs**
Then answer this question: what is really important to you in a programme? **utwente.nl/en/bachelor**
Ask your questions via chat, telephone or email, or visit the Study Information Centre **utwente.nl/mag/contact-en**

STEP 3 LOOK AND COMPARE

HAVE YOU FOUND ONE OR MORE PROGRAMMES THAT APPEAL TO YOU? COMPARE THEM!

Visit Open Days and talk to students and teachers. Are you seriously interested in a particular programme? Then sign up to be a Student for a Day, and come share in a typical day in the life of a UT student. **utwente.nl/studentforaday**

STEP 4 MAKE YOUR DECISION

BY NOW YOU WILL BE READY TO DECIDE WHICH PROGRAMME SUITS YOU BEST.

Follow your own gut feeling – after all, it is your choice. Whether or not you will have direct admission to a specific programme depends on your profile and electives. Before signing up, ask yourself these questions:

- ✔ Have I prepared myself adequately?
- ✔ Do I have the right profile?
- ✔ Does admission to my programme of choice involve a draw, or decentralised selection?

STEP 5 SIGN UP

VISIT STUDIELINK.NL

You can sign up through the registration link on the webpage of your chosen bachelor's. Then complete the registration package that you will receive by email. Send it back once it is completed – only then will your registration be definite. Just to be sure: be on time so that you can participate in our mandatory study choice activities.

The Bachelor's in Psychology has a deviating deadline. Check the website **utwente.nl/mag/deadlines**.
Our Dutch-taught Bachelor's in Technical Medicine has a numerus fixus with a deadline of 15 January 2021.

STEP 6 MAKE THE MATCH

IF YOU HAVE SIGNED UP, THEN YOU WILL RECEIVE AN INVITATION TO TAKE PART IN A STUDY CHOICE CHECK.

This is a final check aimed at helping you and our programme staff to see whether you have made the right choice. This check is mandatory for some programmes.

APPLICATION DEADLINES

Below are the general deadlines for applications. Please note that some programmes have different deadlines!

VISA STUDENTS

- ✔ Completed application form: before **1 MAY**
- ✔ Bachelor Offer of Admission: before **1 JUNE**
- ✔ Payment deadline: before **1 JULY**

NON-VISA STUDENTS

(including Dutch nationals with a foreign diploma)

- ✔ Completed application form: before **1 JULY**
- ✔ Bachelor Offer of Admission: before **1 AUGUST**

UTWENTE.NL/MAG/DEADLINES

UTWENTE.NL/MAG/STUDYCHOICE

FIRST TIME AT UNIVERSITY

A MODULE-BASED PROGRAMME

Your bachelor's takes three years. At UT, every year consists of four 10-week modules. So during the course of your studies you will complete 12 modules. In every module, you work on a current subject from society or the business world. This subject brings together all the different components of your studies: theory and practice, research and designing solutions, self-study and teamwork. A fixed part of every module is the team project, in which you apply the knowledge you've acquired to a current challenge, and design a workable solution with your team.

CREDITS – HOW DOES IT WORK?

European universities work with study credits, also known as ECs. The abbreviation EC is derived from the European Credit Transfer System (ECTS), which was designed for the international comparison of courses. One credit equals 28 hours of work; you need to collect 60 credits each year. Depending on the structure of your study programme, you receive credits for every assignment or exam you pass.

BINDING RECOMMENDATION ON CONTINUATION OF STUDIES

Our goal is to get you to the right place as quickly as possible, which is why we work with a binding recommendation on continuation of studies (BSA). As a first-year student you will receive this study advice at the end of the first academic year. You will receive a positive advice if you have obtained 45 or more of the 60 ECs and have met the possible programme specific requirements in this year. If you get a negative advice, it is binding, which means you have to leave the programme and cannot re-register yourself for the programme for the next three academic years. In some circumstances, we can give you a positive study advice despite having too few credits – for example, if we are convinced that you are in the right place – or postpone your study advice until the second academic year because of personal circumstances. If you're struggling with personal circumstances, such as illness or other problems, we advise you to get in touch with SACC.

UTWENTE.NL/MAG/SACC-EN

PRACTICAL INFORMATION

We hope this brochure gives you an idea of what the University of Twente has to offer you. In this section, we lay out everything you need to know to come and study with us. We look forward to meeting you!

ADMISSION

If you have a secondary school diploma equivalent to the Dutch 'VWO diploma', you can study at a university in the Netherlands. For more details, check **utwente.nl/mag/diplomas**. Your admission to a specific programme depends on your profile and the electives you took at secondary school. For specific admission requirements, check the programme overview of bachelor's in this brochure. For questions about diplomas, please contact our Admission Office.

UTWENTE.NL/EN/BSC-APPLY

ENROLMENT

You first need to apply for your programme online via Studielink.nl. For every programme featured on our website **(utwente.nl/en/bachelor)**, you can click through to Studielink. You can also use this link to register with the Dutch Education Executive Agency (DUO). Once you have enrolled, we'll send information regarding the finalisation of your registration.

NEED A PREPARATORY YEAR?

Are you an international student who does not meet the requirements for direct entry to one of our English-taught bachelor's? Then UT offers you the opportunity to take an international foundation year after which you will be admissible. This one-year programme combines academic study, English language training and study skills to prepare you for degree-level study. The application deadline is 1 July.

UTWENTE.NL/MAG/FOUNDATION-YEAR

CODE OF CONDUCT

UT is a co-signatory of the Code of Conduct for International Students in Dutch Higher Education. This Code of Conduct requires non-EEA students to, among others, have sufficient study progress (50%).

UTWENTE.NL/MOMI
INTERNATIONALSTUDY.NL/EN

NEED A VISA? WE CAN HELP

If you have already been admitted to the University of Twente and need to obtain a visa, don't worry, we can help. The Student Services Contact Centre will contact you after your admission and guide you through all the required visa and residence procedures. They can also help you arrange health and liability insurance.

UTWENTE.NL/MAG/VISA

WHAT ABOUT THE BUDGET?

Studying costs money. As Dutch universities do not receive government funding for non-EU students, we set different rates for students from outside the EU/EEA.

TUITION FEES 2022-2023

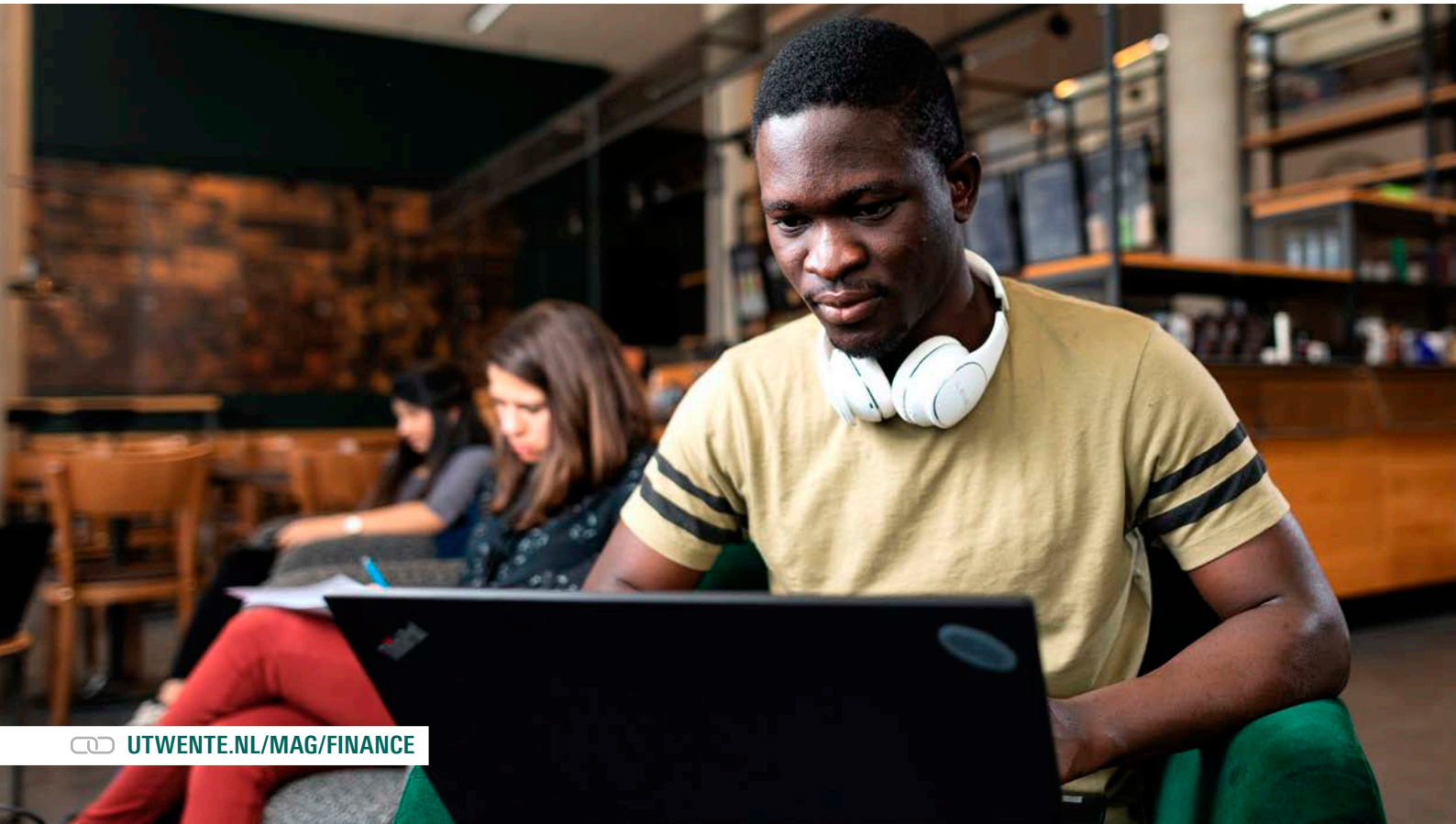
BACHELOR TUITION FEES PER YEAR

NATIONALITY	TUITION FEES PER YEAR	ATLAS STUDENTS
EU/EEA nationalities	€2,209	€3,252
Non-EU/EEA nationalities	€9,350 or 10,875*	€11,834

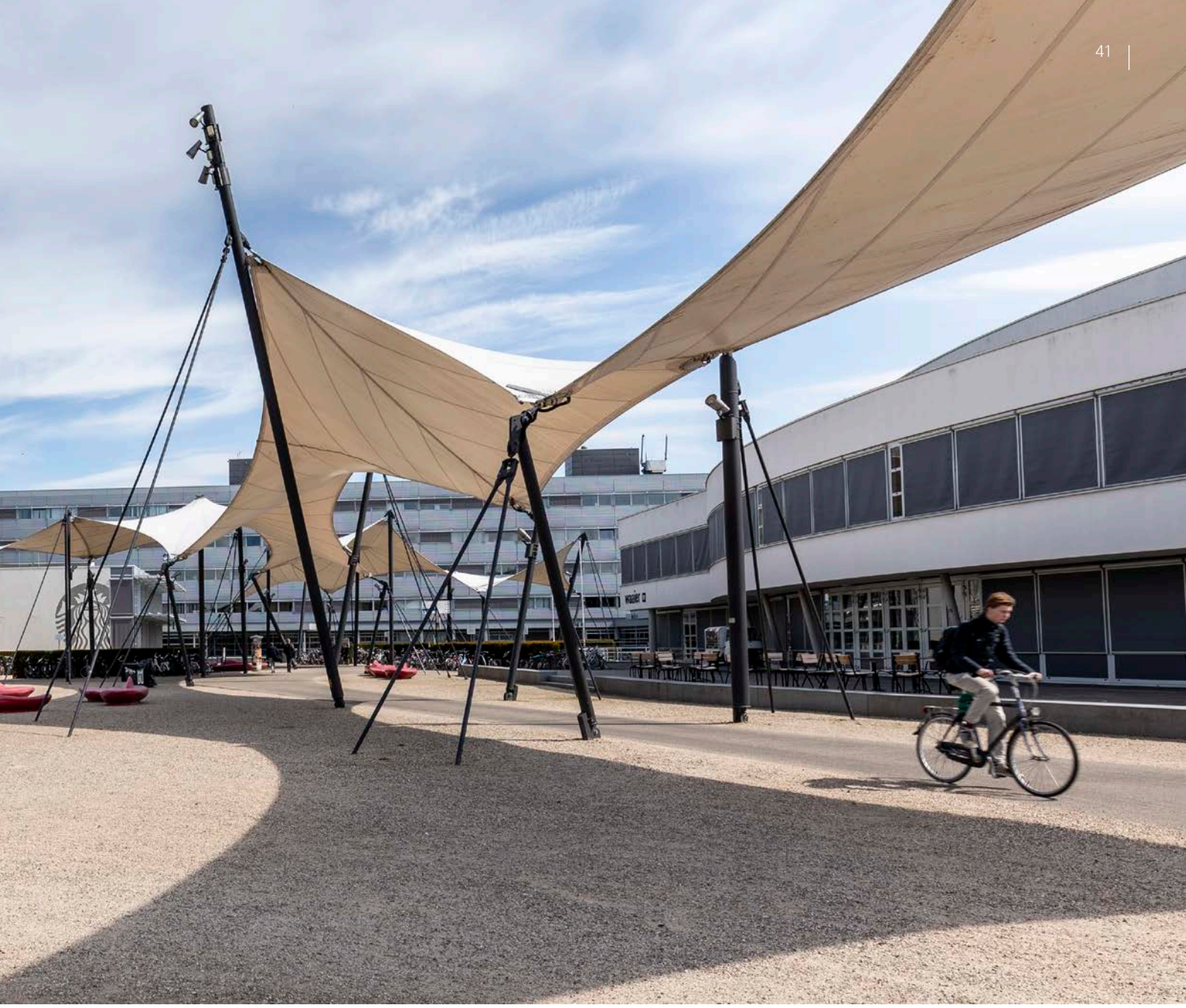
** depending on the programme*

PLEASE NOTE: These were the tuition fees for the academic year 2021/2022, at the time of printing this brochure. As well as being adjusted annually, the fees may differ due to changes in university policy. Visit our website to view the latest information regarding tuition fees.

UTWENTE.NL/TUITIONFEES



UTWENTE.NL/MAG/FINANCE



OTHER EXPENSES

Tuition fees are not all. You'll also need money for housing, food and so on. According to Nibud, the National Institute for Family Finance Information in the Netherlands (nibud.nl), living the student life will cost you, on average, about a thousand euros a month – that's including the EU/EEA tuition fee mentioned above. Here's the calculation behind that estimate:

COSTS FOR EU/EEA STUDENTS LIVING AWAY FROM HOME

Rent (this cost is generally lower in Enschede)	€366
Shopping	€161
Textbooks	€57
Transport (on top of a rail card)	€55
Recreation, going out, sport	€144
Shoes and clothing	€47
Medical insurance	€97
Telephone	€26
Total average per month	**€953**

CHECK THE SCHOLARSHIP FINDER

As an international student coming to the University of Twente, you may be eligible for a scholarship. Various organisations provide scholarships. Find out more by checking the Scholarship Finder on our website.

UTWENTE.NL/MAG/SCHOLARSHIP-FINDER

STUDENT FINANCE

If you're under 30, registered in full-time education or a work-study programme, and a Dutch citizen – or entitled to the rights of a Dutch national on the basis of your residence permit or nationality – you're eligible for student finance. Find out more at the DUO website.

DUO.NL/PARTICULIER/INTERNATIONAL-STUDENT


La vita
è bella

OVERVIEW

BACHELOR OF SCIENCE PROGRAMMES

The University of Twente is rapidly internationalising. Our many English-taught programmes will help you prepare for an increasingly international society. Studying here is a great way to gear up for career opportunities around the world. You can choose from sixteen English-taught and four Dutch-taught bachelor's.

- TECHNOLOGY, LIBERAL ARTS & SCIENCES (ATLAS)
- ADVANCED TECHNOLOGY
- APPLIED MATHEMATICS
- APPLIED PHYSICS
- BIOMEDICAL TECHNOLOGY
- BUSINESS INFORMATION TECHNOLOGY
- CHEMICAL SCIENCE & ENGINEERING
- CIVIL ENGINEERING
- COMMUNICATION SCIENCE
- CREATIVE TECHNOLOGY
- ELECTRICAL ENGINEERING
- HEALTH SCIENCES
- INDUSTRIAL DESIGN ENGINEERING
- INDUSTRIAL ENGINEERING & MANAGEMENT
- INTERNATIONAL BUSINESS ADMINISTRATION
- MANAGEMENT, SOCIETY & TECHNOLOGY
- MECHANICAL ENGINEERING (UT)
- MECHANICAL ENGINEERING (VU)
- PSYCHOLOGY
- TECHNICAL COMPUTER SCIENCE
- TECHNICAL MEDICINE

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UNIVERSITY COLLEGE TWENTE PROVIDES A TRIANGULAR EDUCATION: NOT ONLY DOES IT COMBINE THE THREE ACADEMIC DOMAINS, IT ALSO GIVES YOU A BROAD BASE WITH A CLEAR SPECIALISATION.

- ROBIN

UNIVERSITY COLLEGE TWENTE

University College Twente (UCT) is the international Honours college of the University of Twente. Our English-taught **Technology, Liberal Arts & Sciences**, ATLAS for short, is aimed at curious, versatile students that are eager to make a difference. We offer the only bachelor's that combines technology and engineering with liberal arts and social sciences. UCT will equip you to tackle challenges that require both technological and social perspectives. ATLAS students don't choose: they combine.

DESIGNING YOUR OWN PROGRAMME

With our unique student-driven learning model, you get to determine your own direction. At the start of each semester, with the support of your mentor, you write your Personal Development Plan. At the end, you draw up a Self-Evaluation Report. Our panel of lecturers assesses this report before admitting you to the next semester. You learn to work in teams and take on responsibility, as you join other students in projects, solve real-world problems and learn as you go. In three years, you earn an BSc degree – your ticket to the professional world or to a master's of your choice almost anywhere in the world.

THEMES, PROJECTS AND STUDYING ABROAD

The top-rated ATLAS curriculum will give you a solid foundation in mathematics, science, engineering and social sciences. The first two years centre on semester themes and projects to provide you with the structure you need for planning and developing your learning. In the final year, you get to study abroad and work on your graduation project. The diversity of projects that emerge every year are proof of the broad range of directions this programme can open up for you. Having started off in the same programme as your fellow students, the path you choose as you move forward defines who you will be by the end of your time here at University College Twente.

LIVING AND LEARNING TOGETHER IN A FUN COMMUNITY

University College Twente is a residential college. All students live and work together on campus. Your schedule is flexible and intensive. You interact with teachers and staff and alternately engage in work, sports, eating and relaxing with other students. This makes University College Twente an exceptionally engaging and motivating environment. A true learning community.

POPULAR MASTER'S

• Applied Mathematics • Applied Physics • Biomedical Engineering • Business Administration • Business Information Technology • Civil Engineering & Management • Computer Science • Electrical Engineering • Embedded Systems • Environmental & Energy Management • Geo-Information Science & Earth Observation • Industrial Design Engineering • Mechanical Engineering • Nanotechnology • Education of Social Sciences & Humanities • Spatial Engineering • Sustainable Energy Technology • Systems & Control • Water Technology
and many other options.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- A HIGH SCHOOL DIPLOMA EQUIVALENT TO THE DUTCH VWO (SUCH AS BRITISH A-LEVELS OR THE INTERNATIONAL BACCALAUREATE)
- HIGH FINAL MARKS IN ENGLISH, MATHEMATICS AND AT LEAST ONE OTHER SCIENCE SUBJECT, PREFERABLY PHYSICS
- FOR NON-NATIVE ENGLISH SPEAKERS: PROOF OF PROFICIENCY IN ENGLISH (IELTS 7.0, TOEFL 100 IBT, CAMBRIDGE CPE OR CAMBRIDGE CAE)

A SELECTIVE PROGRAMME WHICH REQUIRES A MOTIVATION LETTER, CV, AND INTERVIEWS

ENGLISH-TAUGHT

UNIVERSITY COLLEGE TWENTE, THE COLLEGE OF DOING THINGS YOUR WAY

ALEXANDRA DEFFNER

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The community spirit and support experienced by each student differently, is what makes University College Twente so unique in my opinion. Looking past the guided and personalised freedom in learning and studying that the ATLAS programme offers, the community holds a major part in an ATLAS-students day to day life. Being part of UCT/ University College Twente has taught me a lot about self-directed learning and the importance in creating a healthy work balance but furthermore the importance of acceptance of different points of views, teamwork and mutual support. Very valuable to me are the in-class discussions and conversations. Along with the ones that take place outside of the classroom, shaped by each students personality and point of view and their aspired academic profiles, the courses and interests that are academically pursued. This allows for strong relationships to grow between the students and teachers. Not limiting the learning experience to the academics, subsequently encouraging it beyond. For the student to learn together as well as from each other. Additionally, the internationality of the community itself, fosters intercultural exchanges and enhances the interdisciplinarity of the course.

ADVANCED TECHNOLOGY

Are you interested in different aspects of science and technology? Do you want to make your own way through various fields of expertise and not just focus on one discipline? Then go for the three-year, English-taught Bachelor's in **Advanced Technology**. A wide range of disciplines come together in this programme.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS, PHYSICS

ENGLISH-TAUGHT

WHY ADVANCED TECHNOLOGY?

Advanced Technology is the most multifaceted technical bachelor's in the Netherlands. You will immerse yourself in electrical engineering, applied mathematics, process engineering and mechanical engineering, as well as nanotechnology, robotics and mechatronics, big data, energy and sustainable technology. No wonder the programme's slogan is 'Explore and develop your science and engineering talents'. Knowing the language of each of these disciplines means you can complete, or supervise, multidisciplinary projects from beginning to end – rather than focussing on a single component and passing that on to the next specialist. The atmosphere in this programme is pleasant and informal and as a student you will receive intensive guidance.

AFTER YOUR BACHELOR'S

Where you end up working depends on the master's you choose. Some of our alumni work as researchers at universities, as process engineers, software engineers, R&D scientists or mechanical engineers – for example right here in Twente, the fastest growing industrial region in the Netherlands. As you will also develop your leadership skills in this programme, you could end up in a consultancy or management position, too – or start your own business. There are plenty of possibilities!

POPULAR MASTER'S

Applied Physics • Applied Mathematics • Biomedical Engineering • Business Administration • Chemical Science & Engineering • Computer Science • Electrical Engineering • Interaction Technology • Industrial Engineering & Management • Mechanical Engineering • Nanotechnology • Spatial Engineering • Sustainable Energy Technology • Systems & Control

QUINTY MOOIJ

"ADVANCED TECHNOLOGY IS HIGHLY MULTIDISCIPLINARY. IT EQUIPS YOU TO TACKLE PROBLEMS FROM DIFFERENT ANGLES, AND TO DESIGN SOLUTIONS INTEGRATING MANY DISCIPLINES."

UTWENTE.NL/MAG/AT-EN

APPLIED MATHEMATICS

Wherever people engage in calculating or modelling, mathematics plays a decisive role. The Bachelor's in **Applied Mathematics** teaches you to use mathematical insights for solving practical problems, such as: what is the optimal racing strategy for Solar Team Twente? How can you model queues? And how do you use probability calculation and statistics to forecast the weather, or deviations in a certain process?

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY APPLIED MATHEMATICS?

Societal impact is one of UT's core values and this programme proves it. While covering all the mathematical theory and skills you would expect from a bachelor's in math, we also have a strong focus on practical application. In this programme, you will learn how to put mathematical instruments to use in, for example, technology, the medical world, banking and insurance, the environment and traffic. By simplifying practical problems and designing a mathematical model for them, you can come up with a formula suitable for making calculations and simulating situations. The outcomes you can then compare with reality. With this degree, you will be an expert in reducing complex, real-life issues to their mathematical essence.

BECOME A BOUNDARY CROSSER

We will also help you develop your intercultural skills, preparing yourself as well as possible for the international environment in which you will later work. As a student, you will learn to cross boundaries, literally and figuratively, in the various assignments you engage in with multidisciplinary project teams. Need an even greater challenge? Then you can do a double degree programme, combining Applied Mathematics with Applied Physics or Technical Computer Science.

AFTER YOUR BACHELOR'S

As a mathematical engineer you can look at any problem from an abstract point of view. Regardless of the field in which the problem occurs, you will be able to see the common denominator across seemingly totally different problems. After completing your studies, you will be able to work all over the world in many different fields: in the research department of a tech company, for the government, at a bank or insurance company, and, of course, in education or research.

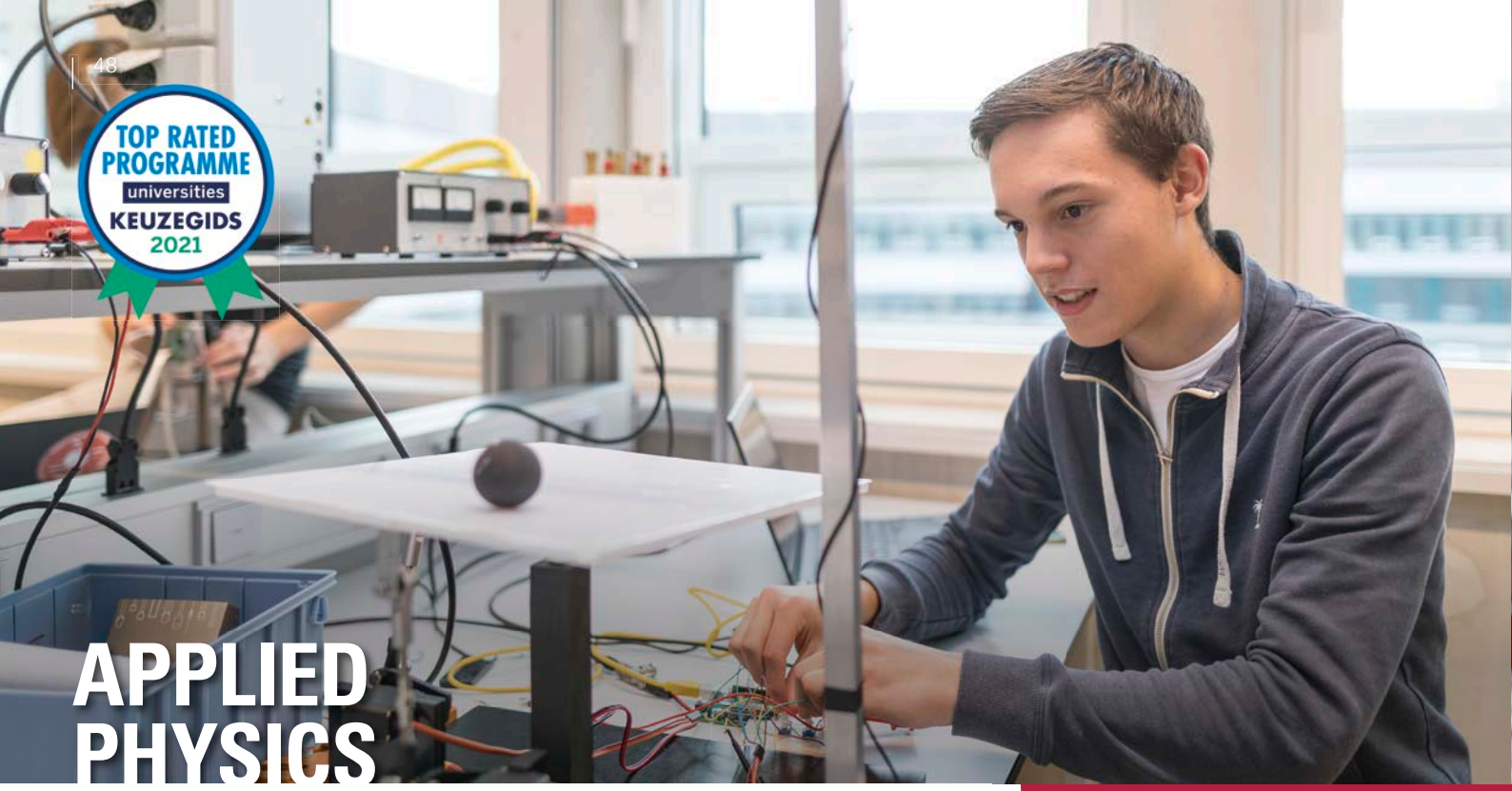
POPULAR MASTER'S

Applied Mathematics • Systems & Control • Sustainable Energy Technology

KENNET LIBOHOVA

"APPLIED MATHEMATICS GIVES YOU THE OPPORTUNITY TO USE THE BEAUTY OF PURE THEORETICAL SKILLS TO SOLVE REAL-WORLD PROBLEMS OF ANY KIND."

UTWENTE.NL/MAG/AM-EN



TOP RATED PROGRAMME universities KEUZEGIDS 2021

APPLIED PHYSICS

How can the human brain perform 100,000 times as many tasks per second as a modern chip, with ten times less energy? Will unbreachable security soon become a reality with the help of quantum physics? What will the chip of the future look like and what kind of physics knowledge will it require to make it? If questions like these fascinate you, then the three-year, Dutch-taught Bachelor's in **Applied Physics** is the perfect choice for you.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL ACCALAUREATE)
- DUTCH (NT2, PROGRAM I OR CNAVT, PMT OR PPT)
- MATHEMATICS, PHYSICS

DUTCH-TAUGHT

WHY APPLIED PHYSICS?

During this Bachelor's, you will study and work at the intersection of fundamental physics and (new) technology. As an applied physicist, you will learn to analyse very complex problems, and as an engineer you will be able to create the necessary solutions yourself. Your main quest will be for knowledge and application possibilities that do not yet exist.

TOP SPORT MENTALITY

For years, our bachelor's has been the highest-rated physics degree in the Netherlands, thanks in part to our combination of individually tailored solutions and a true 'top sports mentality': we're eager to help you move outside your comfort zone and explore the edges of your abilities. You will meet top scientists, keeping in step with the latest developments and the most modern equipment and measurement methods. In combination with mathematics, computer science offers valuable tools widely used in physics. This programme offers you the opportunity to go as far as you wish in this area, for example, with subjects like Computational Physics, Machine Learning and Remote Control of Experiments.

AFTER YOUR BACHELOR'S

Most students enter a master's programme after their bachelor's, for example the Master's in Applied Physics. After that, most graduates work in a position applying their theoretical knowledge of physics in a practical way, for example in research and development, management and consultancy, or engineering and production.

POPULAR MASTER'S

Applied Physics • Applied Mathematics • Science Education & Communication • Nanotechnology • Biomedical Engineering • Sustainable Energy Technology • Computer Science

NOAH VAN DIJK

"IN APPLIED PHYSICS I LEARN TO EXPLAIN PHENOMENA IN THE WORLD. I HAVE ALWAYS BEEN CURIOUS ABOUT HOW THE WORLD WORKS AND WHY THINGS WORK THE WAY THEY DO. THAT'S WHY THIS PROGRAMME IS PERFECT FOR ME"

UTWENTE.NL/MAG/AP-EN

BIOMEDICAL TECHNOLOGY

What requirements must artificial (bio) materials meet in order to function properly in the body? How do you design an artificial kidney? How accurate are imaging techniques, such as optics, ultrasound and X-rays? In our Dutch-taught Bachelor's in **Biomedical Technology**, you will learn to convert knowledge of physics, mathematics, chemistry, mechanical engineering, electrical engineering, biology and medicine into new technological applications for medical care.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- DUTCH (NT2, PROGRAM I OR CNAVT, PMT OR PPT)
- MATHEMATICS, PHYSICS AND/OR CHEMISTRY, ENGLISH

DUTCH-TAUGHT

WHY BIOMEDICAL TECHNOLOGY?

The role of technology in healthcare is growing rapidly – and with it the demand for engineers who can use their medical knowledge to design solution-driven technology. This programme prepares you for exactly that. Mathematics is the language of engineers and therefore an important component at BMT. You will learn to research and analyse clinical problems in the healthcare sector, and to convert your insights into concrete, viable technological innovations. With this programme, you will be uniquely prepared to combine various disciplines.

LEARN IN THE BEST LABS

Developing technical-medical innovations is one of University of Twente's spearheads. We recently started the Technical Medical Centre, an internationally leading research and innovation centre where students, researchers, medical staff and external partners work together on innovations for healthcare. As a Biomedical Technology student, you will be a part of this – learning and developing in an inspiring environment.

AFTER YOUR BACHELOR'S

In and around the healthcare sector, there is increasing demand for academically trained professionals who combine medical knowledge with technological expertise. With your bachelor's degree you can enter our two-year, English-taught Master's in Biomedical Engineering. As a biomedical engineer, you will have very broad and challenging career opportunities. You can set to work in science and research, advise on purchasing and using medical devices in healthcare institutions, develop new healthcare applications or get a job as a consultant, advising on the development of new medical technology.

POPULAR MASTER'S

Biomedical Engineering

BAS BLEIJERVELD

"YOU DEVELOP MEDICAL INNOVATIONS THAT CONTRIBUTE TO BETTER HEALTHCARE."

UTWENTE.NL/MAG/BMT-EN

BUSINESS INFORMATION TECHNOLOGY

In this three-year, English-taught Bachelor's in **Business Information Technology**, you will learn how organisations can best use the growing possibilities of digitalisation, big data, the Internet of Things, machine learning and Business Intelligence. How do you prevent expensive automation projects from eventually failing, or how do you avoid getting a patchwork of systems and IT solutions that ends up confusing your employees? In this programme, you will learn how to convert business needs and strategy into suitable, future-oriented IT solutions.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0,TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY BUSINESS INFORMATION TECHNOLOGY?

This programme will equip you to fill the gap between managers and IT specialists. You will design information systems for business purposes and learn how to organise processes in a smarter and more user-friendly way, thus solving complex automation problems in large organisations. In the field of business administration, the programme covers subjects like business modelling, finance engineering and project management. As an IT expert, you will gain knowledge of programming, software design, ERP and workflow management systems and human-technology interaction.

LEARN FROM TOP RESEARCHERS

The atmosphere is welcoming and informal, with plenty of room for personal attention. The curriculum is internationally oriented, and about half of our students are international. Your lecturers are top-level researchers in fields such as Data Science, Enterprise Architecture, Design Science, Supply Chain Management and Smart Industry. At the same time, the programme has a strong focus on practical applications, and you will get involved in many team projects from and with organisations.

AFTER YOUR BACHELOR'S

You will soon be able to translate an organisation's vision, strategy, and way of working into system requirements and performance-enhancing IT architecture. Many graduates end up working in a position in which they bring together people, for example management or system users, and IT. This may happen in almost any sector: from governance to health, from the manufacturing industry to the financial sector, etc. There is a high demand in the job market for professionals like you, especially if you go on to complete the Master's in Business Information Technology.

POPULAR MASTER'S

Business Information Technology • Computer Science • Industrial Engineering & Management • Business Administration • Interaction Technology

VICTORIA LAPSHYNA

"I WANT TO BRIDGE THE GAP BETWEEN MANAGEMENT AND IT."

UTWENTE.NL/MAG/BIT-EN

CHEMICAL SCIENCE & ENGINEERING

What is the most efficient way of storing electrical energy? What kind of filter would it take to filter out large amounts of CO_2 in a chimney? What composition would you expect from a material that is superconducting at a relatively high temperature, and how could you make it? Our three-year Bachelor's in **Chemical Science & Engineering** will help you develop expertise in understanding, designing and developing new, sustainable processes, materials and applications, with chemistry as your starting point.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS, PHYSICS, CHEMISTRY

ENGLISH-TAUGHT

WHY CHEMICAL SCIENCE & ENGINEERING?

Chemical engineers tackle all possible challenges, from developing minuscule chemical structures – small enough to fit on a chip – to maintaining, improving or designing reactors or installations. The Bachelor's in Chemical Science & Engineering prepares you for that broad, fascinating practice, with subjects ranging from nano-chemistry to design of advanced materials and the operation of chemical processes. You will also become familiar with the mathematics needed to solve chemical-technological issues. And all of this in a small-scale programme in an excellent academic environment.

JOIN A NEW GENERATION OF CHEMICAL ENGINEERS

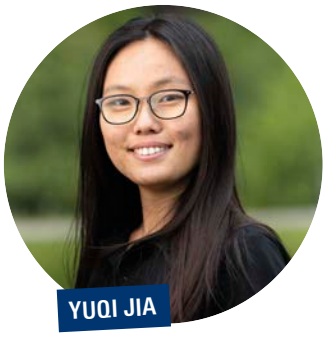
You will get to work with other scientists on topics such as the production of drinking water, sustainable energy and base chemicals, the development of supermaterials, and all kinds of health-related advancements. You will join a new generation of chemical engineers equipped to design the processes and materials needed within these fields.

AFTER YOUR BACHELOR'S

As a graduate, you will be able to design and develop sustainable, high-tech materials and chemical processes for all kinds of applications. You may develop an energy-saving process that does not yet exist today, or a membrane that separates H_2 from industrial gases. Perhaps your research will contribute to the development of a battery for efficiently storing electrical energy and delivering peak power. In short: your work will matter.

POPULAR MASTER'S

Chemical Science & Engineering • Nanotechnology • Sustainable Energy Technology • Water Technology • Science Education & Communication



YUQI JIA

"THIS COURSE ALLOWS ME TO UNDERSTAND DIFFICULT THEORY MUCH BETTER BY PUTTING IT INTO PRACTICE."

UTWENTE.NL/MAG/CSE-EN

CIVIL ENGINEERING

In our Bachelor's in **Civil Engineering**, you acquire both the technical and non-technical knowledge you need to take on complex civil engineering challenges. What is involved in the construction of a new neighbourhood? How do we protect countries against rising sea levels? Which developments play a role in traffic and transport management? You will be equipped to design, construct and manage large projects in the fields of construction and infrastructure, water management, and traffic and transport.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0; TOEFL 80 OR CAMBRIDGE CAE
- MATHEMATICS, PHYSICS

ENGLISH-TAUGHT

WHY CIVIL ENGINEERING?

The fusion of engineering – with subjects such as mathematics and mechanics – with 'soft skills' – such as management and communication – makes this Bachelor's unique, both in the Netherlands and internationally. As a civil engineer from Twente, you are perfectly equipped to come up with solutions that are technically sound, while also offering solid expertise in organisational and socio-economic aspects.

PREPARE FOR AN INTERNATIONAL CAREER

The teaching language is English, about a quarter of the students and a fifth of the staff are from abroad, and the study programme is set in an international context. In the first year, for example, in the module on water management you design a dam for the Blue Nile in Ethiopia – looking not only at technical aspects, of course, but also at how to manage the area's many human and ecological interests.

AFTER YOUR BACHELOR'S

Around the world, the demand for civil engineers is high. In the Netherlands alone, there are around 125,000 job vacancies at the moment. Our Bachelor's in Civil Engineering has been named best programme in its kind in the Netherlands for several years running by the Dutch 'Keuzegids Universiteiten'. Add to this that Dutch engineers are known as the best in the world ('Bring in the Dutch'), and you can understand that with this degree you can make a difference anywhere in the world – and that 100% of our master's graduates have a good job within three months of finishing.

POPULAR MASTER'S

Civil Engineering & Management • Construction Management & Engineering • Spatial Engineering

LIEKE VAN HAASTREGT

"WHAT APPEALS TO ME IS THAT IT IS ABOUT MORE THAN JUST TECHNOLOGY, AND THAT I CAN DIRECTLY APPLY WHAT I LEARN IN A PROJECT."

UTWENTE.NL/MAG/CE-EN

COMMUNICATION SCIENCE

Communication Science at the University of Twente: hypermodern, challenging and 100% future proof. This programme makes you a true 21st century communications professional who moves effortlessly in organisations and who knows exactly how to bring people and new technologies together. To bring impact to society - now and in the future.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0; TOEFL 80 OR CAMBRIDGE CAE
- MATHEMATICS

ENGLISH-TAUGHT

WHY COMMUNICATION SCIENCE?

Would you like to know how fake news is spread? How new media applications emerge and affect us? Why some innovations make it, while others fail? Want to create a persuasive app, a 3D environment using virtual reality, or an animation designed to change the behaviour of its users for the better? Or to discover the extent to which the digital traces we leave behind, both online and offline, can be used to predict our attitudes and behaviour? Our Communication Science Bachelor's will prepare you academically and practically for an exciting role as connector in the unpredictable, digitalised world of tomorrow.

This programme has been designed to prepare you for the future in the best possible way. It is structured around three exciting, contemporary themes: Digital Society, Changing Organisations and Persuasive Tech. This means that as a communication scientist at UT, you will study human behaviour and interaction in the context of our high-tech, digital society. And while immersing yourself in communication theory, you will also work in teams on real-world problems. We will help you get familiar with the grand challenges of our age, and explore the important, pervasive role of communication in solving them.

AFTER YOUR BACHELOR'S

As a graduate, you will be more than ready for the role as bridge builder who finds his or her way in our rapidly changing and unpredictable world. Those changes are a challenge to you. Your strong academic background, your professional skills and your technological know-how will allow you to work in PR, at a communications or marketing agency, as a communications professional for a company or (public) organisation, or as a UX (user experience) designer. Do you want to study on? Your Bachelor's degree in Communication Science gives you access to several very interesting masters.

POPULAR MASTER'S

Communication Science • Business Administration • Psychology

JIP LUKKIEN

"I LOVE THAT YOU GET TO LEARN ABOUT A VERY BROAD RANGE OF COMMUNICATION FIELDS, FROM MARKETING AND ORGANISATIONAL COMMUNICATION TO TECHNICAL COMMUNICATION.

IT REALLY HELPS YOU TO FIND WHAT YOU'RE GOOD AT AND WHAT YOU LOVE!"

UTWENTE.NL/MAG/COM-EN

CREATIVE TECHNOLOGY

The Bachelor's in **Creative Technology** will equip you to develop the latest smart technology, and to apply solutions that contribute to a better future. For example, how can you reduce pain for people with chronic pain? How do you visualise data streams? What happens when you add music to a book?

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY CREATIVE TECHNOLOGY?

Gaining broad knowledge of computer science and electrical engineering, you will go through the whole creation process: from mapping out the question, to building working prototypes and testing them on users. During this programme, which attracts many international students, you often work together with students with different backgrounds. This is multidisciplinarity at its best! You will develop fundamental technical knowledge and skills, as well as knowledge of the interaction between media, technology, people and design.

BECOME A VERSATILE PROFESSIONAL

We will challenge you to participate in activities outside of your studies – like organising a study trip – to stimulate your development as a professional. Sometimes, you can even earn study credits that way. Your input also matters in the programme: together with our student association Proto, we are constantly improving our education and we organise all sorts of study-related activities.

AFTER YOUR BACHELOR'S

As a Creative Technology graduate, you will be a designer with technical expertise, knowledge of social behaviour and an eye for social developments. You might set out to design and develop solutions for urban flooding, such as a rainwater buffer. Or maybe you will be the creative brain behind a new robot with emotional awareness, or an application that allows athletes to check all their progress and achievements at a glance. If you want to set to work with your bachelor's, you will find good job opportunities as an IT trainee, web designer, or innovation developer. You could also launch your own creative start-up. Most of our graduates specialise by doing a master's.

POPULAR MASTER'S

Interaction Technology • Embedded Systems • Industrial Design Engineering • Business Information Technology • Computer Science • Electrical Engineering • Educational Science & Technology • Science, Education & Communication

MICHELLE SUDJITO

"ONLY THE UT PROGRAMME MET ALL MY REQUIREMENTS: A BROAD, INNOVATIVE, INTERNATIONAL AND CREATIVE IT COURSE."

UTWENTE.NL/MAG/CREATE-EN

ELECTRICAL ENGINEERING

The Bachelor's in **Electrical Engineering** teaches you to come up with high-tech solutions to practical problems: What do you need to be able to move a robot arm very quickly and to the nanometre? How do you measure a nano G in order to be able to measure gravitational waves, or building movements? How could you build a chip that works ten times as fast as current chips, with ten times less power?

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS, PHYSICS

ENGLISH-TAUGHT

WHY ELECTRICAL ENGINEERING?

As an electrical engineer, you will be equipped to devise and develop ground-breaking solutions that are faster, more accurate and more sustainable than any known alternatives. Rather than replicating things, you will create applications that did not exist before: your job will be to help shape the world of the future. In this programme, you get to spend around 25% of each module on practical skills in a team project and/or practical assignment. The problems you will tackle are relevant and your research will contribute to the next steps in your research area.

BENEFIT FROM OUR PERSONAL APPROACH

Electrical Engineering is a small-scale programme with plenty of room for personal attention and development. You will learn to work together with students and professors from other disciplines and cultures, while being surrounded by ambitious students and lecturers who enjoy thinking out of the box.

AFTER YOUR BACHELOR'S

With your bachelor's degree, you can further specialise by completing a master's at the University of Twente. Some students immediately join the job market, or start their own business. No less than 99% of our master's graduates find a job within a month of completing the Electrical Engineering programme. In 20 years' time, you may have developed the successor to the drone, or you might be working on faster and better pattern recognition for medical or safety applications. More computing power in every telephone chip than there is in today's supercomputers? You could make it happen!

POPULAR MASTER'S

Electrical Engineering • Systems & Control • Embedded Systems • Interaction Technology • Nanotechnology • Sustainable Energy Technology • Environmental & Energy Management

ANAND NATESHAN

"AT ELECTRICAL ENGINEERING, YOU LEARN HOW TO TACKLE COMPLEX REAL-WORLD PROBLEMS BY PUTTING KNOWLEDGE INTO PRACTICE."

UTWENTE.NL/MAG/EE-EN

HEALTH SCIENCES

The healthcare sector in the Netherlands is facing significant changes, due to e.g. rising healthcare costs and an ageing population. Technology is playing an increasingly important role. In the Dutch-taught Bachelor's in **Health Sciences**, you will learn to assess the added value of (new) technology from the perspective of the patient, healthcare providers, and insurers. You will tackle questions such as: How can an app contribute to reducing the number of doctor's visits of a diabetic patient? How do we know whether a new treatment is better than the old one? How can we use big data to improve the organisation in a hospital?

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- DUTCH (STAATSEXAMEN NT2-LL, CEFR LEVEL B2-C1)

DUTCH-TAUGHT

WHY HEALTH SCIENCES?

No other programme integrates healthcare and technology as much as this one. Health Sciences, however, is not a technical bachelor's: your focus will be on the quality of care for individual patients, reorganising processes and the effects of policy on healthcare nationwide. You will also become familiar with areas such as health and illness, healthcare economics and healthcare research.

ENJOY A PERSONALISED APPROACH

Much of your training will take place at our Technical Medical Centre, a leading international research and innovation centre where various parties (research, clinic and industry) bring their knowledge together to devise, develop and test healthcare improvements and innovations. These innovations will be discussed in education right away. Within a small-scale and informal educational sphere, we help you grow both professionally and personally. You will learn to manage tasks, cooperate, communicate, present, reflect and give and receive feedback.

AFTER YOUR BACHELOR'S

With this degree you can immediately join the job market, or you can further specialise by doing a master's. You will be directly admissible to our English-taught Master's in Health Sciences, in which you will gain in-depth expertise in e-health, management or policy. After the bachelor's or master's, you will have good job opportunities at hospitals, insurance providers, home-care institutions, consultancy firms, medical companies and with the government.

POPULAR MASTER'S

Health Sciences

EVITA BARTELS

"YOU LEARN TO OPTIMISE HEALTHCARE, MAKING IT MORE EFFICIENT AND EFFECTIVE."

UTWENTE.NL/MAG/HS

INDUSTRIAL DESIGN ENGINEERING

Will you design the consumer products of the future? Products that don't just look good, but are also geared to the needs of end users, the production process, packaging requirements and recyclability? In the Bachelor's in **Industrial Design Engineering** you learn to design or improve products with technical insight, creativity and a keen sense of consumer behaviour.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0; TOEFL 80 OR CAMBRIDGE CAE
- MATHEMATICS, PHYSICS

ENGLISH-TAUGHT

WHY INDUSTRIAL DESIGN ENGINEERING?

This engineering bachelor's prepares you for all aspects related to designing a good product. You get a firm grip on the entire design process, from developing ideas to market introduction. This enables you to become a spider in the web at many different companies, such as manufacturers of consumer products, design agencies, consultancy companies or (semi) government bodies.

YOUR DESIGN IN STORES?

As well as gaining academic knowledge, you will work on realistic challenges, often taken directly from the industry. Together with your team, you will develop a prototype of a product that you present to your client, which could be IKEA or Ahrend. A lot of products made by UT students have actually ended up in stores this way.

AFTER YOUR BACHELOR'S

With a Bachelor's in Industrial Design Engineering, you can confidently enter the job market as an entrepreneurial designer – someone who, literally and figuratively, can shape the future. You will feel at home in all facets of the product development process. You are able to anticipate the future and look beyond professional boundaries in all sorts of different positions: from consultant to researcher, and from process monitor to product designer or developer.

POPULAR MASTER'S

Industrial Design Engineering • Mechanical Engineering

TIRSA VAN DER OUW

"THE SUBJECTS VARY FROM MATHEMATICS TO GRAPHIC DESIGN, AND FROM ERGONOMICS TO MARKETING."

UTWENTE.NL/MAG/IDE-EN

TOP RATED PROGRAMME universities KEUZEGIDS 2021

INDUSTRIAL ENGINEERING & MANAGEMENT

The Bachelor's in **Industrial Engineering & Management** will equip you to work on designing, managing and improving business processes. You will learn how to make organisations more efficient, to maximise profit and minimise risk, and to improve their quality and competitive position. Through the use of modelling and techniques, you will be able to systematically analyse strengths and weaknesses. You will also learn how to implement the required changes effectively and to assess the consequences.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY INDUSTRIAL ENGINEERING & MANAGEMENT?

During this programme you will familiarise yourself with both technical and non-technical opportunities and challenges. You will develop a feel for broader societal challenges, such as population ageing, globalisation or climate change. The demand for people who can oversee this level of complexity is increasing and, thanks to our 'High Tech Human Touch' approach, you will become an interdisciplinary problem solver of the future. Industrial Engineering & Management deals with different sectors, from industry and transport to healthcare and finance. During projects, you will work in multidisciplinary teams on current issues experienced by prominent companies in these sectors. Surrounded by ambitious students and staff who like to push boundaries, you will be challenged to constantly develop yourself.

AFTER YOUR BACHELOR'S

There is always a demand for industrial engineers and managers – people trained to master complex processes, analyse complicated problems and devise effective solutions. Because of your understanding of business processes and your ability to apply your professional, social and entrepreneurial skills to the successful implementation of solutions, you are likely to receive job offers before you have even finished the programme.

POPULAR MASTER'S

Industrial Engineering & Management • Business Administration • Business Information Technology • Applied Mathematics

FEMKE GEERTS

"THE COMBINATION OF TECHNOLOGY AND BUSINESS SEALED THE DEAL FOR ME."

UTWENTE.NL/MAG/IEM-EN

INTERNATIONAL BUSINESS ADMINISTRATION

How do you make businesses more innovative, sustainable and successful? Entrepreneurship is more than a buzzword or a job: it is a mindset. As an **International Business Administration** student, you will grasp the deeper meanings behind concepts such as entrepreneurship and innovation. You will learn how to analyse organisations, organisational problems and processes and, of course, in our projects you will learn how to collaborate with, and design solutions for existing companies.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY INTERNATIONAL BUSINESS ADMINISTRATION?

The Bachelor's in International Business Administration will help you to develop a holistic, inclusive view on doing business – to prepare you for a leading role in today's constantly changing business world. Your exposure to the leading research of the Hightech Business & Entrepreneurship group, including one of the first academic centres for entrepreneurship in the Netherlands, is just one example of this.

Internationalisation is a part of our DNA. You will study on a campus with a culturally diverse group of students and teachers from all over the world. You will also get to spend a semester abroad and perform research tasks for companies in multicultural and multidisciplinary teams.

This programme is also available as a double degree with the University of Münster. More info is available on the website.

AFTER YOUR BACHELOR'S

This bachelor's degree will provide you with a solid academic foundation and help you develop valuable entrepreneurial understanding and skills. It is also an excellent springboard to a management role in an international setting. You will be skilled in carrying out research, and – under supervision at first – creating and implementing solutions that comply with strict requirements. You can start working at a large enterprise or a multinational, find your place in an SME, or even start your own business. You might also choose to further specialise with one of the compatible master programmes.

POPULAR MASTER'S

Business Administration • Communication Science • Philosophy of Science, Technology & Society

CHYNNA WAN

"IBA GIVES YOU A BROAD KNOWLEDGE BASE THAT YOU CAN CONFIDENTLY DRAW ON IN ANY PRACTICAL CONTEXT. IT OPENS UP A WORLD OF POSSIBILITIES."

UTWENTE.NL/MAG/IBA-EN

MANAGEMENT, SOCIETY & TECHNOLOGY

Do you want to work on societal challenges in which technology plays a key role? For example, migration, the responsible use of identification techniques, or the use of Big Data and smart wearables for public health? Now you can! Our Bachelor's in Public Administration 3.0 will equip you to develop innovative improvements for a society that is increasingly intertwined with technology.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY MANAGEMENT, SOCIETY & TECHNOLOGY?

This programme will give an in-depth understanding of the rapid technification of our society. You will immerse yourself in areas such as computer security and cyber-crime, learning what technology hackers use and how we can protect ourselves against them. You will also look at migration flows, one of the largest societal challenges of our time, and learn all about the digital government. And that's is only the beginning…

As a Management, Society & Technology graduate, you will lead the way in understanding the impact of technology on our society. You will be a 'societal engineer', equipped to design innovative solutions to complex challenges, for example, in the field of public health, security, economy and sustainability. Your knowledge and skills will enable you to positively impact society as a whole.

AFTER YOUR BACHELOR'S

Choosing this bachelor's is a choice for in-depth professional expertise and intensive personal growth. You will learn to work together with experts from other fields of study, while being surrounded by ambitious students and staff who like to push boundaries. With this bachelor's degree in your pocket, you can set to work as a mover and shaker in public affairs on a local, national or international level.

POPULAR MASTER'S

Public Administration • European Studies • Comparative Public Governance Double Degree • Communication Science • Business Administration • Environmental & Energy Management

MEREL ENSINK

"MS&T OFFERS A GOOD BALANCE BETWEEN SOCIETY AND TECHNOLOGY, WHICH GIVES ME THE BEST OF BOTH WORLDS.

BEING ABLE TO SOLVE SOCIETAL PROBLEMS WHILE USING TECHNOLOGY ALLOWS ME TO BE PREPARED FOR THE FUTURE!"

UTWENTE.NL/MAG/MST-EN

MECHANICAL ENGINEERING

Do you want to become an expert in inventing, designing, improving and maintaining all kinds of devices, machines, constructions and processes? From a roller coaster, an aeroplane, or a future energy installation to an innovative hearing aid, or a robotic hand? Are you looking for a university that combines mechanical engineering theory with realistic team projects? If you are, our English-taught Bachelor's in **Mechanical Engineering** is the right choice for you.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0; TOEFL 80 OR CAMBRIDGE CAE
- MATHEMATICS, PHYSICS

ENGLISH-TAUGHT

WHY MECHANICAL ENGINEERING?

In this programme you will acquire all the scientific theory and skills you would expect from a bachelor's, while we are also committed to practical application and to developing your versatility and resourcefulness. For example, in every module, you and your project team will tackle a real-life challenge. Our TIME programme (Twente Introduction to Mechanical Engineering) will help you transition quickly from secondary school to university. In the very first week you will gear up from mathematics and physics to mechanical engineering, familiarising yourself with systematic problem-solving. We offer intensive personal coaching and guidance. This will also help you learn to work with experts in other disciplines; your skills in interdisciplinary collaboration will give you an edge on the job market. Another asset is our international profile: you will be studying with students and staff from many countries and engaging in an internationally oriented curriculum.

AFTER YOUR BACHELOR'S

Demand for highly educated mechanical engineers is increasing both in the Netherlands and abroad. Especially if you complete a master's, you will be a respected professional with excellent career opportunities. Many graduates quickly find jobs in leadership positions, for example, as a technical specialist or team leader. You may work in production and development in the machine or equipment building industry, in the automotive, aircraft, chemical or electro-technical industry, at a research institute or university, with an engineering firm, or as a healthcare engineer.

POPULAR MASTER'S

Mechanical Engineering • Sustainable Energy Technology • Systems & Control

SIEM BUSE

"MECHANICAL ENGINEERING PROVIDES ME WITH A BROAD, TECHNICAL FOUNDATION AND OUTSTANDING CAREER PERSPECTIVES."

DID YOU KNOW MECHANICAL ENGINEERING IS ALSO OFFERED IN AMSTERDAM?
As a joint programme by the University of Twente and VU Amsterdam.

DISCOVER MORE AT **VU.NL/ME-EN**

UTWENTE.NL/MAG/ME-EN

PSYCHOLOGY

Do you want to be a psychologist who helps others to be positive, balanced and resilient in life? Would you like to use your psychological expertise to design solutions for challenges in the healthcare sector, business, education, or anti-terrorism? The Bachelor's in **Psychology** will equip you to be a future-oriented psychologist who can effectively respond to the possibilities and risks of new technologies.

THIS PROGRAMME HAS A NUMERUS FIXUS

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

WHY PSYCHOLOGY?

The University of Twente is the only university at which you can study psychology with the added dimension of a strong focus on technology. As a Psychology student at UT, you will gain unique knowledge of the different ways in which technology, behaviour and social processes influence each other. You will have an eye for smart tech tools that you can use – or can have developed – in your work as a researcher or care provider, for example, a health app, or a Virtual Reality game.

Whether you set up your own psychology practice or become a pioneer in business, education or government, as a psychologist of the future you will deal with people and organisations that operate across geographical and cultural boundaries. UT offers you a strongly internationalising environment with many international students and staff members as well as highly multidisciplinary projects – all of which will help you develop a unique view of your field.

AFTER YOUR BACHELOR'S

Your adeptness for applying profound psychological knowledge to practical issues, and for designing realistic solutions, will open many unexpected doors for you on the job market. With your unique knowledge of the different ways in which technology, behaviour, and social processes influence each other, you will be able to offer a fresh, valuable approach to whatever work you end up doing.

POPULAR MASTER'S

Psychology • Educational Science & Technology • Philosophy of Science, Technology & Society

AIKO UNTERWEGER

"THIS PROGRAMME PROVIDES A BRIDGE TO TECHNOLOGY. THIS VERY CONNECTION OF PSYCHOLOGY AND TECHNOLOGY IS STRONGER THAN EVER AND THE UNDERSTANDING OF THIS CONNECTION DETERMINES HOW WE SHAPE THE FUTURE."

UTWENTE.NL/MAG/PSY-EN

TECHNICAL COMPUTER SCIENCE

Are you fascinated by computers and computer science? In addition to programming, do you want to gain expertise in other essential disciplines, such as electrical engineering or business information technology? Do you see yourself becoming a technical computer scientist committed to making a difference in a sector of your interest, for example, healthcare, banking, or the environment? Then our Bachelor's in **Technical Computer Science** is the right choice for you.

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

- CERTIFICATE EQUIVALENT TO DUTCH VWO (E.G. BRITISH A-LEVELS, INTERNATIONAL BACCALAUREATE)
- ENGLISH (CEFR, B2/C1 LEVEL; IELTS 6.0, TOEFL 80 OR CAMBRIDGE CAE)
- MATHEMATICS

ENGLISH-TAUGHT

THIS PROGRAMME HAS A NUMERUS FIXUS

WHY TECHNICAL COMPUTER SCIENCE?

Technical Computer Science combines in-depth computer science with a broad angle on technology and engineering. You will have a unique understanding of the devices, services and processes that people and organisations need to exchange, process and store information. You will study a lot of mathematics and gain in-depth knowledge of programming, software systems, computer networks, algorithms, computer hardware, or human-machine interaction. You will also immerse yourself in aspects such as parallelism, information and data, complexity and security. In the research you carry out and the challenging team projects you engage in, you will learn to work with experts from other disciplines, from business information technologists to psychologists.

PROFESSIONALISE IN AN INTERNATIONAL SETTING

Our programme offers an international and very informal setting with lots of personal guidance and opportunities to grow, for example in the role of student-assistant. And if you are sufficiently talented and ambitious, you can combine this programme with our Bachelor's in Applied Mathematics. In short, whether you label yourself as a super-nerd, an idealistic problem-solver or an ambitious go-getter: there is no better place than here to start your journey.

AFTER YOUR BACHELOR'S

After the bachelor's, the vast majority of students specialises further by following a master's programme. Most then have a job within three months of graduation.
As an expert in an emerging field of science for which demand is rising, you will be able to find a job in a wide array of sectors. For example, you can work in the financial or transport sector, the leisure industry, the energy sector, for an IT company or consultancy, at a university or research institute, or in the medical world.

POPULAR MASTER'S

Computer Science • Interaction Technology • Business Information Technology • Embedded Systems

ROSAN MAAS

"TECHNICAL COMPUTER SCIENCE IS A FUN WAY TO LEARN PROBLEM-SOLVING AND MANY OTHER USEFUL SKILLS THROUGH THE MEANS OF CODE."

UTWENTE.NL/MAG/TCS-EN

TECHNICAL MEDICINE

Are you looking for a Dutch-taught academic programme in which you can combine your fascination for technology and the human body? Can you imagine merging medicine and engineering in order to help your very own patients independently? Then this unique Dutch-taught Bachelor's in **Technical Medicine** is for you. As a 'technical physician', you will be equipped to play a vital role in the 21st century medical world.

THIS PROGRAMME HAS A **NUMERUS FIXUS**

ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS

PLEASE NOTE THAT THIS PROGRAMME IS TAUGHT IN DUTCH AND YOU'LL NEED **FLUENCY IN DUTCH** FOR APPROPRIATE PATIENT COMMUNICATION. YOU'LL BE TESTED ON YOUR LANGUAGE SKILLS.

DUTCH-TAUGHT

WHY TECHNICAL MEDICINE?

The Bachelor's in Technical Medicine is a medical science programme that educates you to become a technical physician. You will become familiar with anatomy, physiology and pathology, and with the workings of, for example, light, sound and radiation - thanks to plenty of mathematics and physics. Technology is playing an increasingly important role in the medical world. You will be trained to improve healthcare diagnostics and therapy through innovative use of technology: you will be a technical-medical specialist with expertise in medicine and engineering. By applying these fields of knowledge to your own patients, you will improve the diagnosis and treatment process and enrich regular healthcare. After completing your Technical Medicine Master's, you will be qualified in the Netherlands to independently diagnose and treat your own patients, like a general practitioner or a dentist. What makes your expertise unique is your ability to apply medical technology.

BECOME A SKILLED TECHNICAL-MEDICAL PROFESSIONAL

Throughout the programme, you will work hard on your professional behaviour. Your internship and the many simulations you will be involved in at our modern Technical Medical Centre will provide you with invaluable knowledge and practical experience. During this challenging programme, you will become a skilled technical-medical professional.

AFTER YOUR BACHELOR'S

As a graduate in Technical Medicine, you will have excellent career perspectives. Many of our graduates choose to follow a Master's in Technical Medicine. They have a high-level job within three months of getting their degree. Many start out at academic or top clinical hospitals, where they diagnose and treat their own patients, often as part of a specialised, multidisciplinary team. After completing your bachelor's degree, you can also opt for another master's at the University of Twente, such as Biomedical Engineering or Health Sciences.

POPULAR MASTER'S

Technical Medicine • Biomedical Engineering • Health Sciences

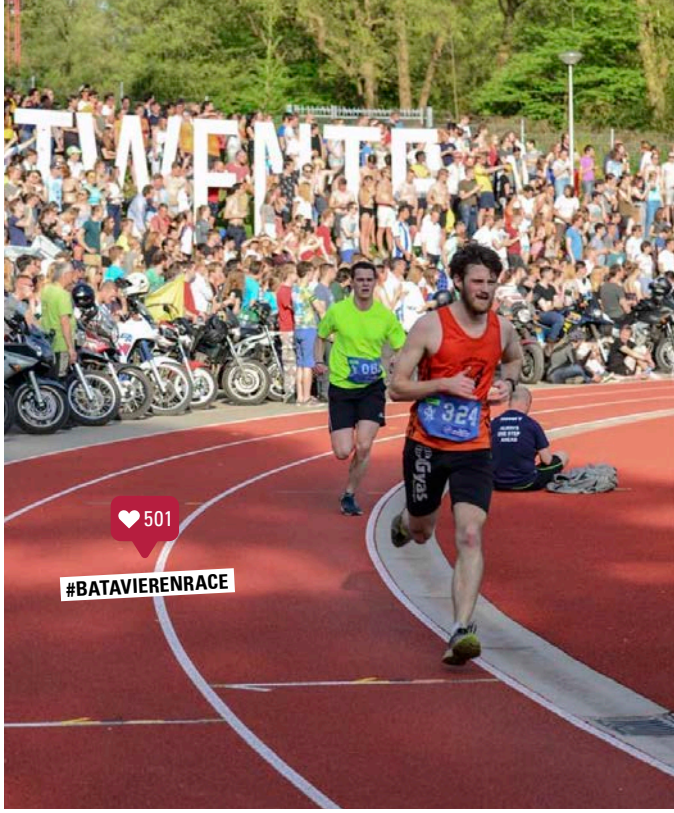
MANOUK RAMSELAAR

"BY COMBINING MY UNDERSTANDING OF MEDICAL TECHNOLOGY AND OF THE HUMAN BODY, I CAN CONTRIBUTE TO BETTER DIAGNOSTICS AND TREATMENTS FOR PATIENTS."

UTWENTE.NL/MAG/TM

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 fourteen Dutch universities recognised 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** (www.eciu.org)?
- ✔ 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 **'BATAVIERENRACE'**, which is followed annually by Europe's largest all-night student party?



FOLLOW US ON SOCIAL MEDIA!

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YOUR NOTES

PHOTOGRAPHY
Eric Brinkhorst, Rikkert Harink, Gijs van Ouwerkerk, Annabel Jeuring, Enschede Promotie

GET IN TOUCH!

There are many opportunities to get to know the University of Twente and the bachelor's that appeals to you. Visit our (virtual) events or simply start up a chat.

EVENTS

ONLINE OPEN DAY

EXPERIENCE OUR UNIVERSITY FROM THE COMFORT OF YOUR HOME!
NOVEMBER 2021

FAIRS

MEET US IN YOUR OWN COUNTRY

BACHELOR EXPERIENCE DAY

EXPERIENCE IN A SMALL GROUP WHAT THE BACHELOR'S IS REALLY LIKE

CAMPUS EXPERIENCE FESTIVAL

COME CATCH THAT CAMPUS FEELING!
APRIL 2022

STUDENT FOR A DAY

GET YOUR OWN PERSONAL INTRODUCTION

SIGN UP FOR OUR EVENTS!
UTWENTE.NL/MAG/ORIENTATEYOURSELF

CONTACT US

SKYPE WITH A STUDENT

UTWENTE.NL/SKYPE

WHATSAPP

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+31 (0)53 489 54 89, *from 9 AM to 5 PM (CET)*

EMAIL

study@utwente.nl

CONTACT US ON SOCIAL MEDIA

JOIN THE CONVERSATION AND STAY UP-TO-DATE VIA OUR CORPORATE FACEBOOK PAGE: **@UTWENTE**

Go to 'Prospective students' and check out our student ambassadors from all over the world.

For students from China, we have dedicated Weibo and WeChat accounts: UTWENTE

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

WWW.UTWENTE.NL/MAG/CONTACT-EN

NO 1

LEADING THE WAY IN ENTREPRENEURSHIP

↳ AND SOCIETAL IMPACT

12,038

STUDENTS

↳ OF WHICH **32%** ARE INTERNATIONAL

130

STUDY AND STUDENT ASSOCIATIONS

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