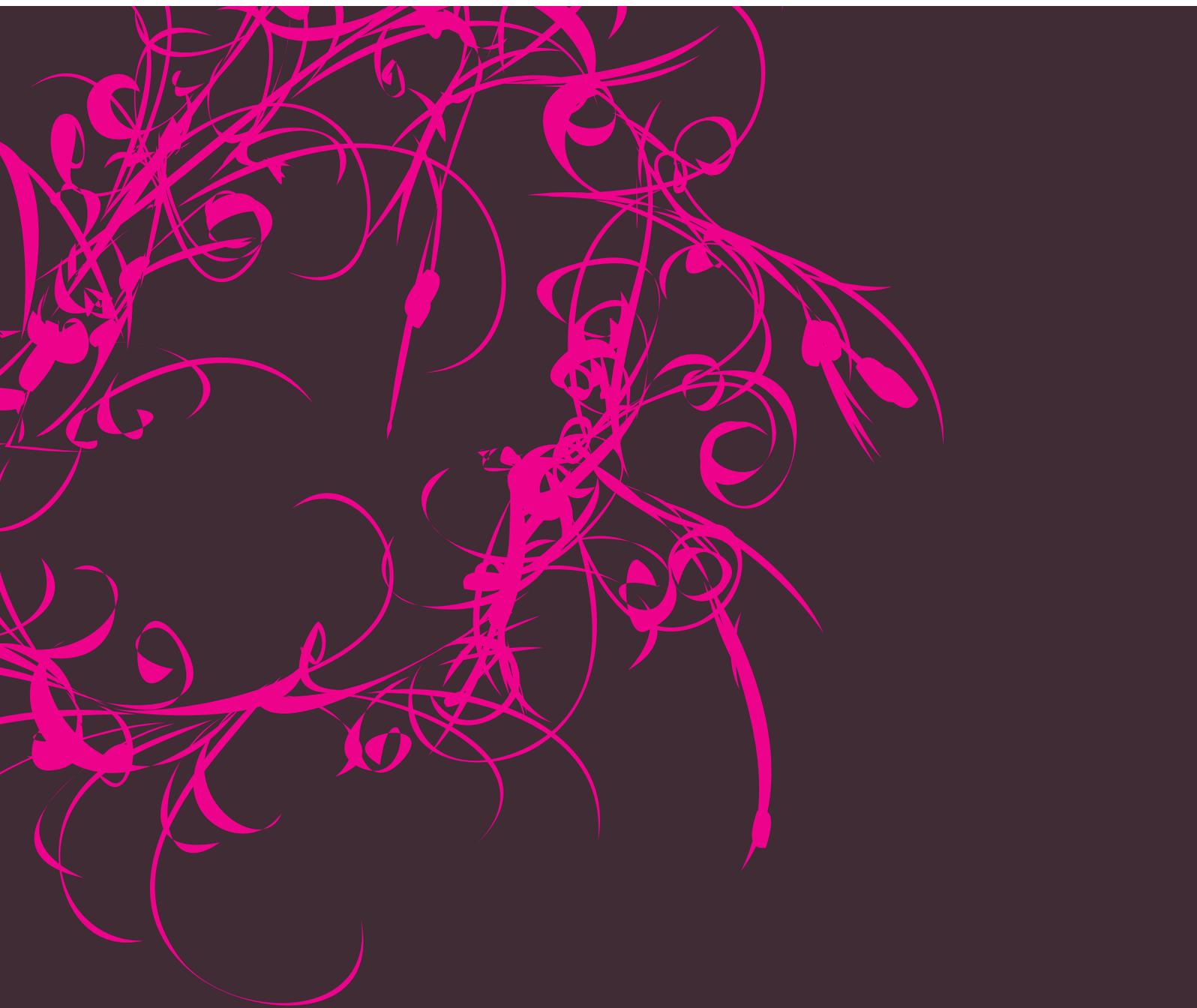


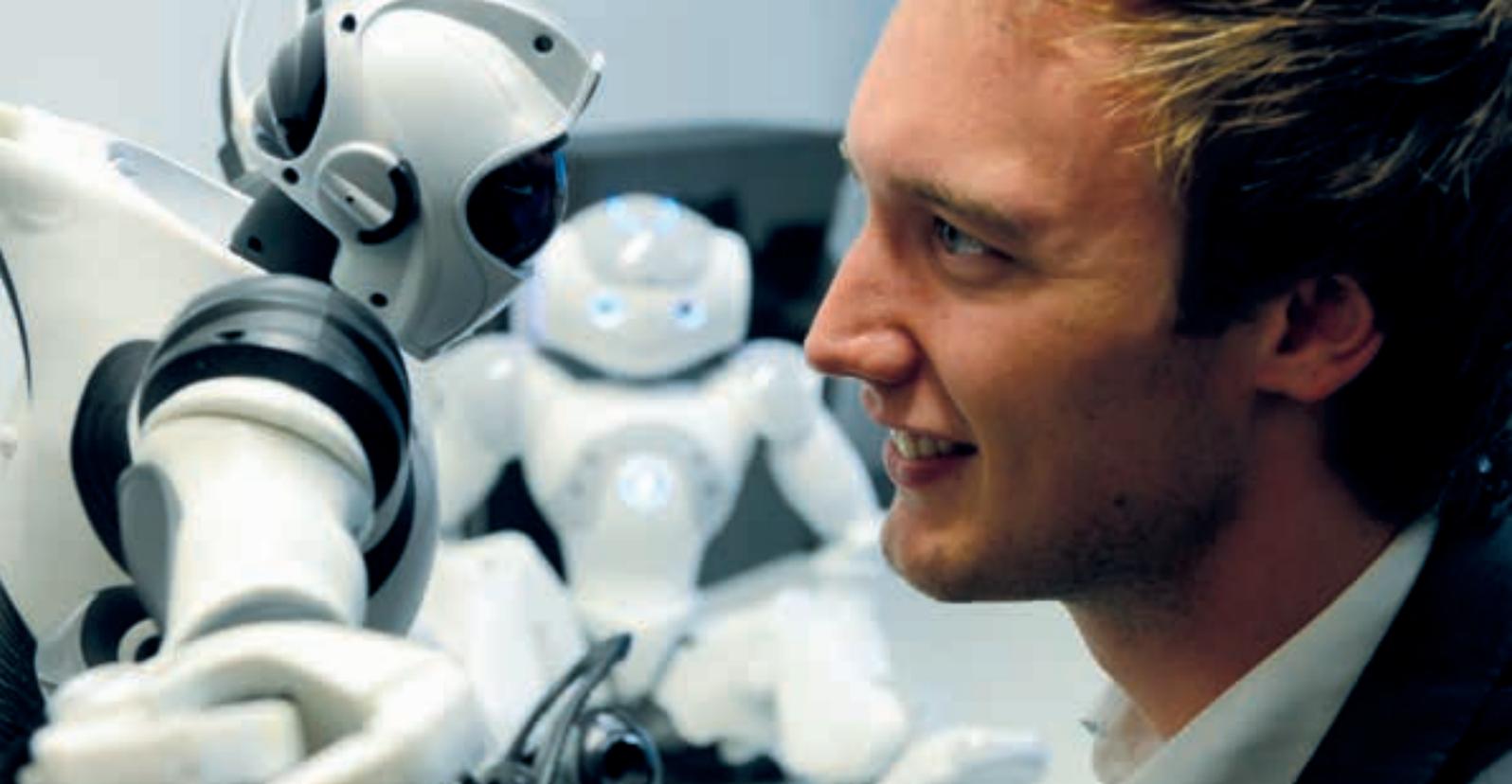
MSc AND PhD

TWENTE GRADUATE SCHOOL

INTEGRATED MASTER'S AND PhD OPPORTUNITIES



UNIVERSITY OF TWENTE.



TWENTE GRADUATE SCHOOL

INTEGRATED MASTER'S AND PhD OPPORTUNITIES

Twente Graduate School offers high-quality educational programmes based on subjects closely related to the work of the university's research institutes and taught and supervised by expert researchers from these same institutes. It offers an increasing variety of integrated Master's and PhD programmes for outstanding graduate students who are keen to pursue a career in scientific research.

TGS programmes are set up in collaboration between the university's faculties and research institutes. Next to the PhD research project leading to a dissertation, the broad selection of discipline related and elective courses enable students to specialize in a research area they are interested in while broadening their perspective on the societal context of technology and research. These aspects are integrated into the Twente Graduate School, which aims to give a kick-start to research talent.

WHY CHOOSE THE UNIVERSITY OF TWENTE ?

High tech with a human touch: the University of Twente focuses on developing technology and studying its impact on people and society. The interface between technologies: that is where important and intriguing innovations occur.

Twente's key research areas include nanotechnology, biomedical technology, ICT, sustainable energy and governance. We do not approach new technologies in isolation, but in relation to behavioural, social, and management sciences, combining high tech with a human touch. As a modern, entrepreneurial university, Twente is

renowned for its engineering ability in supporting industry and commerce, and its creation of new innovative businesses. This provides unexpected solutions in areas such as health, sustainable energy, water, education and safety. In our 50 year history, we have given rise to over 700 spin-off companies.

The University of Twente's highlights are:

- **Academic Excellence:** The University of Twente is ranked number one in the 2012 Leiden Ranking for Dutch research universities and is named among the world's top 200 universities according to the Times Higher Education Supplement for the sixth year in a row. The number of citations of scientific articles by the University's academic staff in recent years was more than 20,000, ranking the University of Twente among the top 25 of the 250 biggest European universities.
- **Campus university:** The University of Twente is the only campus university in the Netherlands, providing a pleasant environment for students.
- **Student entrepreneurship:** 700 Spin-off companies have emerged from the University.

PARTICIPATING RESEARCH INSTITUTES

MESA+ INSTITUTE FOR NANOTECHNOLOGY

MESA+ is one of the world's largest nanotechnology research institutes and it is the largest research institute in this field in the Netherlands. A total of 525 researchers work together on cutting-edge research at the highest level.

MESA+ boasts a state-of-the-art NanoLab with a floor area of 1250 square metres. The fact that its users are offered a wide variety of technologies and equipment to develop an almost unlimited number of applications makes this NanoLab quite unique. MESA+ actively seeks collaboration with industry and encourages entrepreneurship among its employees. Through collaboration and a focus on interdisciplinary research, the excellent infrastructure and entrepreneurship, MESA+ is one of the world's top institutes in the field of nano and microtechnology.

MIRA INSTITUTE FOR BIOMEDICAL TECHNOLOGY AND TECHNICAL MEDICINE

MIRA combines fundamental and applied research with clinical practice and encourages entrepreneurship and industrial collaboration. This unique scientific path stimulates a successful application of fundamental concepts and enables healthcare to rapidly introduce new treatments. Through close cooperation with hospitals, industry and governmental organizations MIRA aims to safeguard a leading position in Europe.

MIRA's scientific work is gathered into the research tracks: Tissue Regeneration, Neural & Motor Systems and Imaging & Diagnostics.

CTIT CENTRE FOR TELEMATICS AND INFORMATION TECHNOLOGY

CTIT (Centre for Telematics and Information Technology) is one of the largest academic ICT research institutes in Europe. Over 475 researchers actively participate in the research programme, which has a clear focus on integrating technology-based research and applying it to specific domains.

Its multidisciplinary approach makes the institute an attractive partner. It maintains an extensive international network of contacts and working relations with the academic world and industry. This network includes IT manufacturers, universities and research institutes, healthcare organizations, financial institutes, governmental organizations and logistics service providers.

IGS INSTITUTE FOR INNOVATION AND GOVERNANCE STUDIES

The Institute for Innovation and Governance Studies is one of the University of Twente's priority research institutes, carrying out multidisciplinary research and postgraduate research training in the governance and management of technological and social innovation. Issues of coordination, steering and operating institutions and networks in the public and private sectors are key focuses of research,

utilizing a multi-level, multi-actor systems perspective, with reference to the social and behavioural sciences. IGS works to combine scientific excellence with relevance for our stakeholders in the public and private sector.

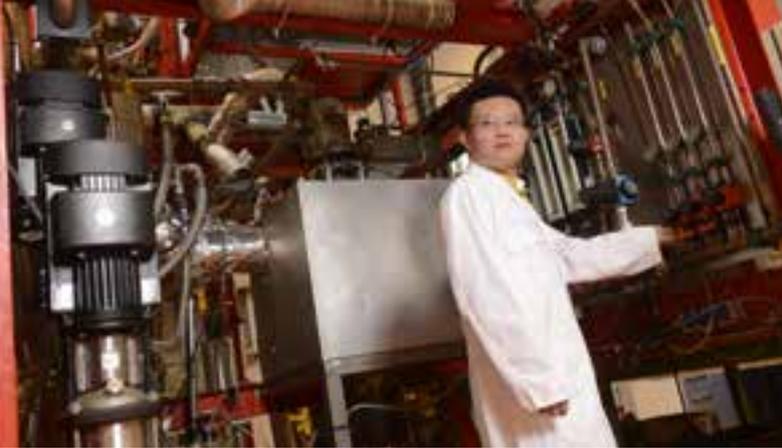
ITC – SPACE FOR GLOBAL DEVELOPMENT

The Faculty of Geo-Information Science and Earth Observation (ITC) focuses on knowledge of geo-information management and pushing the boundaries of this field. Through education, research and capacity building, ITC works to disseminate and embed this knowledge in developing countries and emerging economies.

3TU – ETHICS AND TECHNOLOGY

The Netherlands' three universities of technology have combined their strengths and expertise to form the Centre for Ethics and Technology (3TU.Ethics for short): a centre of excellence in the philosophy of technology. Socially responsible innovation is one of the key concepts in the activities of the 3TU.Ethics.





THE PARTICIPATING PhD RESEARCH PROGRAMMES AND THEIR LINKED MASTER'S PROGRAMMES

INSTITUTE	GRADUATE RESEARCH PROGRAMMES	MASTER'S DEGREE PROGRAMMES INVOLVED
MESA+	Advanced Optics	Applied Physics
	Computational Science	Applied Mathematics Applied Physics Chemical Engineering Mechanical Engineering
	Fluid Physics	Applied Physics
	Nano Devices and Systems	Electrical Engineering Applied Physics Nanotechnology
	Next Generation Energy and Resources	Chemical Engineering Mechanical Engineering Applied Physics Sustainable Energy Technology
	Novel Nano Materials	Applied Physics Chemical Engineering
MIRA	Biomedical Engineering	Biomedical Engineering
CTIT	Dependable and Secure Computing	Computer Science
	Human-Centred Interaction Technologies	Human Media Interaction
	Industrial Engineering	Applied Mathematics Industrial Engineering and Management
	Learning in Educational and Training Settings	Educational Science and Technology Psychology
	Services Science	Computer Science Business Information Technology
	Wireless and Sensor Systems	Computer Science Electrical Engineering Telematics Embedded Systems
IGS	Innovation & Entrepreneurship	Business Administration Industrial Engineering and Management Double Degree Master's with TU Berlin in Innovation Management and Entrepreneurship
	Innovation of Governance	Public Administration European Studies Psychology Construction Management and Engineering
	Governance, Knowledge and Innovation	Public Administration European Studies Philosophy of Science, Technology and Society
	Water	Civil Engineering and Management Water Resources and Environmental management Master of Environmental and Energy Management
ITC	Space for Global Development	Geo-Information Science and Information Management
3TU	Ethics and Technology	Philosophy of Science, Technology and Society

ADMISSION REQUIREMENTS AND ENROLMENT

There are two ways to enrol into a TGS programme. You can start a Master's degree programme at the University of Twente or you can start a PhD programme if you have already completed a Master's programme at the University of Twente or elsewhere.

ARE YOU CURRENTLY A BACHELOR'S STUDENT?

BSc You have already obtained your Bachelor's degree

MSc One-year programme with discipline related courses, 60 credits
Two-year programme with discipline related courses, 120 credits
Opportunity to start integrated MSc/PhD programme in second year

PhD Post-Master's courses, for instance: Research Management, Methodologies in the Engineering Sciences, Advanced Science Communication, Entrepreneurship and Valorization, and Ethics

If you currently are a Bachelor's student or have recently obtained your Bachelor's degree, and are interested in pursuing a PhD through one of the integrated research programmes TGS offers, have a look at the Master's programmes involved.

To be admitted to a Twente Graduate School programme, you must have achieved excellent results in your Bachelor's degree and have good research skills. You must also have gained admission to a relevant Master's programme. The Twente Graduate School programmes are specifically geared towards research. Talented students can write their PhD proposal as part of their Master's degree programme. For more information about the Master's programmes, the admission requirements, and the tuition fee have a look at: www.utwente.nl/master

ARE YOU CURRENTLY A MASTER'S STUDENT?

MSc You have already obtained your Master's degree

PhD Post-Master's courses, for instance: Research Management, Methodologies in the Engineering Sciences, Advanced Science Communication, Entrepreneurship and Valorization, and Ethics

After successfully attaining a Master's degree, you may enter a Twente Graduate School programme in the PhD phase. PhD candidates may either apply for a PhD position available within one of the research groups or obtain their own funding.



VACANCIES

Unlike in many other countries, most PhD students in the Netherlands are paid employees, often working directly for the university. Research projects are defined by the head of the research group, who then recruits graduate students to carry out project research. If a PhD position is offered in a research field of your choice, you are kindly invited to apply to such a vacancy. Vacancies for PhD positions at the University of Twente, including those connected to Twente Graduate School, are published on the vacancies website www.utwente.nl/vacancies.

OWN FUNDING

You may also enter a Twente Graduate School programme as PhD student with your own funding or with an international scholarship. In that case, research projects are initiated on the basis of proposals submitted by graduate students as part of their application procedure. A professor in a relevant field has to express interest in the candidate and the proposed line of research. Before a proposed research plan is taken into consideration, it must be clear that the candidate plans to submit an application for a secured funding scholarship. Please note that the University of Twente is not in a position to offer fellowships or similar funding for PhD students, other than the vacancies mentioned above.

ADDITIONAL INFORMATION

If you would like more information about Twente Graduate School, please go to the TGS website (www.utwente.nl/tgs).

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