www.tue.nl/sai

Outside the campus

TU/e has a vibrant campus, and the city of Eindhoven is invigorating. This city of 200,000 residents is centrally situated in Northwestern Europe, easily accessible by public transport and has its own international airport. The Eindhoven region, located in the southeast of the Netherlands, is one of the corner-stones of the Eindhoven - Leuven - Aachen Technology Triangle and positions itself as 'Brainport Eindhoven'. It is the high-tech industrial heart of the Netherlands and main seat of companies like Philips, ASML, Océ, DAF Trucks and DSM. Eindhoven also has excellent shopping, friendly and cheery sidewalk cafes and restaurants as well as a vibrant night life. The city also boasts a wealth of theater and concert venues and museums to please every art and culture vulture.

More information

If you would like more information about a PhD or technological designer program at TU/e or are curious to find out what PhD and PDEng trainee positions there are, go to www.tue.nl/jobs where you can also discover how to apply for a PhD or PDEng trainee slot.

www.tue.nl/jobs

TU/e Technische Universiteit **Eindhoven** University of Technology

Eindhoven University of Technology:

the next step in your career?

You've just gained your Master's or are in the final stages of your technology university course and you want to go even deeper within your field in order to have a solid foundation for your future. Eindhoven University of Technology (TU/e) gives you a range of possibilities. If your focus is scientific research, a four-year PhD may be the thing for you or if you prefer to bring your scientific knowledge to bear in an industrial setting, you could consider a two-year technological designer program (PDEng traineeship). Whatever your choice is, you can be assured of good supervision, intrinsic challenges and excellent research facilities. Moreover, as a TU/e PhD student or PDEng trainee, you will be part of the scientific staff, with a salary and excellent fringe benefits.

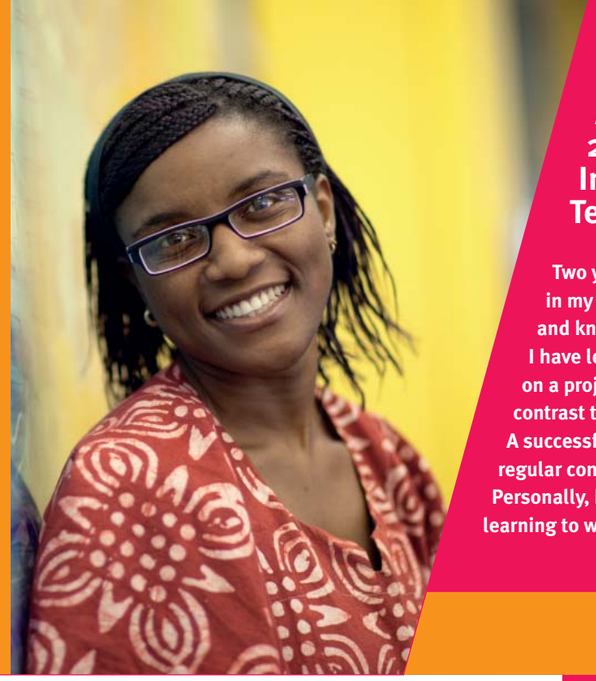
TU/e: a good choice

- Top quality research
- High on the Time Educational Supplement's ranking and Citation Impact Scores
- Excellent labs and research facilities
- In the heart of the Brainport high-tech region
- Close cooperative links with industry
- World leader in scientific output in cooperation with industry according to the Leidse Center for Science and Technology Studies (CWTS)
- International contacts
- Salary and excellent secondary terms and conditions of employment
- International scientific staff
- Open and informal atmosphere
- English as a second language
- Vibrant campus and city
- Excellent supervision for international students and staff

Where innovation starts

Marcelo de Andrade Oliveira, PhD-candidate (Mechanical Engineering)

‘I am researching combustion processes. How can we make them more effective and cleaner? Every day I am contributing towards a cleaner environment. I draw my inspiration and motivation largely from this idea. Besides this, almost every day still I enjoy the international, dynamic and open atmosphere here at TU/e. The non-hierarchical structure of the division and the easy approachability of the professors are really unique. There are so many places where these don’t exist. I’ll obtain my doctorate soon; if I join an organization with a work atmosphere like the one here, I’ll be a happy man. And I’d be perfectly happy if that place was TU/e!’



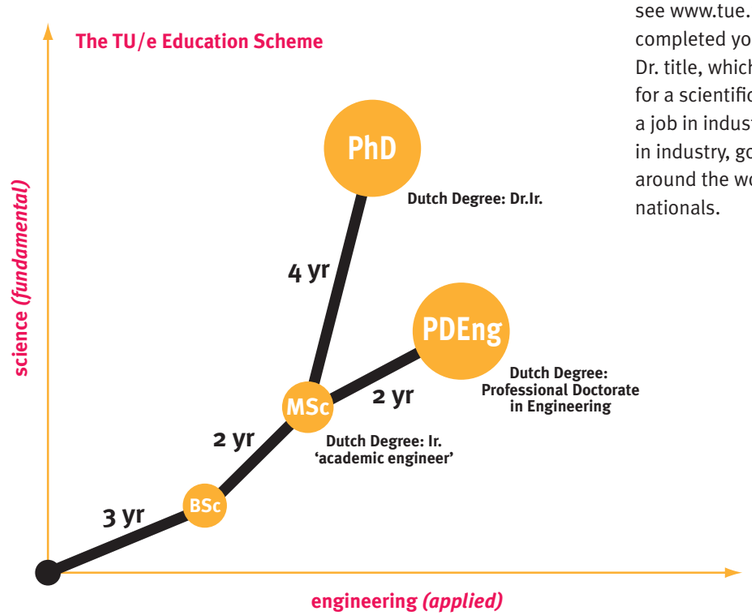
Anne Nkengafeh Fomin, 2nd year technology PDEng trainee at Information and Communication Technology (ICT, Electrical Engineering)

Two years of post-masters studies have really given me a lot. I’ve grown in my subject field, know what I want to do, I am confident in my abilities and know my weaknesses and strengths. During my PDEng traineeship I have learned to think like an experienced Design Engineer. You also work on a project for a year. You work towards a tangible end result, which is in contrast to PhD research whose results are not certain beforehand. A successful traineeship requires you to take initiative yourself. You have regular consultations with your supervisor but he won’t lead you by the hand. Personally, I consider this good preparation for the next stage of my career: learning to work independently.

Getting started as a PhD

The education program at a technology university in the Netherlands is somewhat different to that of universities in most other countries (see figure). At TU/e you are eligible for a PhD position if you hold a Master of Science degree from a technology or comparable university.

In the four years of your PhD program you will be trained to become an independent researcher, undertaking your study under the supervision of a professor, presenting a thesis at the end. You will write scientific publications, give presentations at conferences and seminars to scientists from your field as well as do some teaching-related work. You will also attend classes and will work on your personal development through the PROOF course (PROviding Opportunities For PhD students; see www.tue.nl/proof). Once you have successfully completed your thesis, you will be awarded the Dr. title, which will give you an excellent opening for a scientific position at a university as well as for a job in industry. PhD’s from TU/e are now working in industry, government and scientific institutions around the world. Some are even CEO’s of multi-nationals.



Or a PDEng traineeship?

If you are explicitly looking for a career in industry or business, a post-Master technological designer course at TU/e can boost your career. A technology Master’s degree is the springboard for one of the eight designer courses in Eindhoven. During the two-year program you will expand your technological knowledge and learn to apply this in practice. You will also work on your professional skills and so give your career chances a boost. By offering the designer program TU/e is responding to a need from Dutch high-tech industry where there is demand for experienced designers able to design complex new products and processes as well as devise innovative solutions. A Master’s degree gives you the requisite theoretical basis, but not the practical experience. The second year of the program comprises a design project in industry whereby, under the supervision of experienced professionals, you participate in a large-scale, multidisciplinary project at a leading Dutch company. Over the past twenty years PDEng trainees from TU/e have found challenging positions at international companies like Philips, ASML, TNO, Shell, Ericsson and Akzo Nobel. Once you have gained your ‘Professional Doctorate in Engineering’ degree, you will be ready for a job in industry or you may embark on a scientific career: there are also opportunities to follow an shortened PhD program. Interested in what designer courses exist? Go to www.tue.nl/sai.

The facts

- TU/e has 200 PDEng trainees and 700 PhD students
- TU/e has 7,200 students and 3,000 staff, 240 of whom are professors
- TU/e has 12 three-year Bachelor programs, 26 two-year Master programs in English and 8 two-year technological designer programmes in English
- TU/e has students and staff from some 90 different countries
- Nearly 30 percent of the scientific staff originate from countries outside the Netherlands. This figure is 50 percent for PhD students
- A PhD earns between 1,400 and 1,800 euros per month after tax
- A PDEng trainee earns around 1,275 euros per month after tax
- PhD’s and PDEng trainees have similar fringe benefits to other TU/e staff, like 41 days of leave, a relocation allowance when emigrating and participation in a collective health insurance scheme.