Brainport region: one of Europe’s most innovative regions
According to Forbes Magazine, Eindhoven is one of the most innovative places in the world.
Eindhoven University of Technology (TU/e)

Top-ranking Dutch University
Eindhoven University of Technology is a first-rate research university specializing in engineering science & technology in the Netherlands.

At the heart of the Brainport region
TU/e is situated in the heart of one of the most intelligent communities in the world: Brainport, renowned for technology and design.

Strong technology heritage Eindhoven
With companies such as Philips, ASML, DAF, NXP and FEI, the Eindhoven region has a strong heritage in technology.
TU/e in a nutshell

• High quality research and education
• International network with prominent universities and institutes
• TU/e alumni in high demand among employers
• One campus with modern student facilities
  → visit our campus in 3D via [www.tue.nl/virtualvisit](http://www.tue.nl/virtualvisit) (open in Google Chrome)
• International community with over 80 nationalities
• Friendly, open culture
• International Student Association
• Excellent sport facilities
  → Check the [Sportscenter](http://www.sportscenter.nl) website.
Opportunities after your MSc

Bachelor College

BSc
Bachelor of Science
3 years

Graduate School

MSc
Master of Science
2 years

PDEng
Professional Doctorate in Engineering
2 years

PhD
Doctor of Philosophy
4 years
PhD & PDEng programs: traineeships with a salary

PhD:
• Four-year program
• Fundamental research or in collaboration with industry
• Become an independent researcher
• PhD degree
• [www.tue.nl/phd](http://www.tue.nl/phd)

PDEng:
• Two-year program
• Design assignment in high-tech industry or health care sector
• Become a technological top-designer
• PDEng degree
• [www.tue.nl/pdeng](http://www.tue.nl/pdeng)
## Differences PDEng - PhD

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General structure PDEng

One year of advanced courses and training:
- Personal skills (communication, project management, working in teams)
- Business skills (how to create value for a company)
- Generic design methods and techniques
- Domain specific methods and techniques

One year working on an innovative design project with:
- Strong support by the supervisors from university and company
- In a high tech company or health care institute
- Real project that makes a difference!
When to do a PDEng?

- You know you like the subject but you feel you still need to learn some skills
- You like to try out different projects
- You want to explore the industry
- You like to apply (academic) research to a hands-on project
- You like working in a group
- You want to have a smooth transition between the University and the industry
A few examples

“I’m designing an information model for hospital Bernhoven”
Kirsten de Wilde, PDEng trainee Clinical Informatics

“I’m designing a stock-optimisation software tool for ASML”
Rutger Bakker, PDEng trainee Industrial Engineering

“I’m developing a heavy hydrocarbon removal process for Shell”
Uchenna Agbarakwe, PDEng trainee Process and Product Design

“I’m designing a diabetes game for Máxima Medical Center”
Pieta van der Molen, PDEng trainee User System Interaction
12 PDEng programs

- Automotive Systems Design
- Clinical Informatics
- Data Science
- Design of Electrical Engineering Systems
  - Track Healthcare Systems Design
  - Track ICT
- Design and Technology of Instrumentation
- Industrial Engineering
- Process and Product Design
- Qualified Medical Engineer
- Smart Energy Buildings and Cities
- Software Technology
- User System Interaction

→ Feel free to contact the program of your interest!
Why a PhD?

- You develop the capability to carry out independent research
- You like to stay in academics
- You work on a topic that fascinates you
- You are doing research on something completely new
When to do PhD?

- You have set your mind on exactly what you want to do
- You have a new idea you want to explore
- You like to work independently
- You prefer the academic environment rather than the industry

Tip: check out our unique research labs:

https://www.tue.nl/en/research/research-labs/
A few examples

“I’M DOING RESEARCH ON SUSTAINABLE CHEMICALS”
Alvaro Carlos Varas, PhD Chemical Engineering

“I’M DOING RESEARCH TO REDUCE WAITING TIMES IN THE EMERGENCY ROOM”
Pera Stefan, PhD candidate Industrial and Applied Mathematics

“I’M DOING RESEARCH ON HEART VALVE TISSUE ENGINEERING TO TREAT BABIES THAT ARE BORN WITH CONGENITAL HEART VALVE FAILURE”
Bart Sanders, PhD Life Science and Engineering
15 PhD Programs

- Automotive Systems
- Applied Physics
- Built Environment
- Chemical Engineering
- Computer Science
- Electrical Engineering
- Industrial and Applied Mathematics
- Industrial Design
- Industrial Engineering
- Innovation Sciences
- Life Sciences and Engineering
- Mechanical Engineering
- Photonics
- Professional Learning
- Sustainable Energy Technology
Time for questions!

More information:
- www.tue.nl/pdeng
- www.tue.nl/phd

Vacancies for PDEng/PhD positions
- Tue.jobs.nl/en/vacancies