Excellent designers

PDEng trainees all have a university engineering degree (MSc level) before they enroll in one of our two-year designer programmes. Selection for these programmes is tough: typically candidates are from the top 25% graduates of technological universities.

First year: special curriculum

During their programme the trainees spend their first year following a dedicated curriculum, which involves interactive, interactive workshops and group and personal assignments, often in close cooperation with industrial partners. System architecture and design are at the core of this first year. In addition to topics of a more technological nature, the participants acquire professional skills such as project management, communications and conflict handling. There are programmes where trainees start with the design project during the first year. In that case the design project runs parallel with the curriculum.

Second year: design assignment

In the second year the trainees carry out an in-company design assignment. Their prior engineering education and the supplementary design schooling puts them in an excellent position to take on this assignment in consultation with the client. University experts act as supervisors, providing state-of-the-art technology, advising on the structure and execution of the project and monitoring that the goals of the project are realised. Once the assignment has been completed, it is assessed by a committee of university and company experts.

Personalised options

With several programmes your company has the possibility to select the trainee for your assignment already before the programme commences and define the curriculum in mutual agreement with the trainee. This ensures a seamless fit of the trainee’s profile with the requirements of the end assignment. This is the case for programmes which in the first year of the second year the design project runs parallel with the curriculum of the designers’ programmes. These options can be discussed with the concerning programme.

Dutch subsidies

Companies may be eligible for specific subsidies when their business focuses on innovation, research and development. On our website we have listed those subsidies. For more information: http://www.4tu.nl/sai/en/valorisation/subsidies/

A good investment

For around 5,300 euros per month your company can have the benefits of a highly qualified employee in-house for a whole year. On average assignments carried out by our PDEng trainees last 12 months. During this time the trainee develops complex new products and processes and offers innovative solutions to your technological design issues. Secondly, you get to know the person and as a result of the project you are in the perfect position to decide whether to offer him or her a position within your company.

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Programmes and tracks

The Stan Ackermans Institute offers the following programmes and tracks (more information visit www.4tu.nl/programmes):

Beijing University of Technology (BPE)

The progamme focuses on the design and development of equipment and devices for the life-sciences, healthcare, food, semiconductor, and energy industry. For this purpose a multidisciplinary approach is required with expertise from technology, cognitive and social psychology and design methodology.

Process and Product Design (PPD)
The PPD programme deals with the design of modern high tech automotive systems in the context of Smart Mobility. The programme aims at creating designs for complex healthcare logistics, so as to increase the efficiency of logistics.

Green Energy Buildings and Cities (GEBE)

The program focuses on sustainability in the construction industry. For this purpose a multidisciplinary approach is required with expertise from technology, cognitive and social psychology.

Design and Technology of Information Products (DTI)

The programme focuses on the design of high tech electronic circuits in the field of telecommunication, electronics and control engineering. The PDI programme Maintenance educates designers who create efficient and effective maintenance information systems, efficient and sustainable management processes, and can improve processes. A sound understanding of the technical, financial, logistics and organisational perspective. The design has to comply to the actual civil engineering issues (such as economics, environment, safety, sustainability and recycling).

Process and Design Engineering (PDEng)
The PDEng programme focuses on the design of actual industrial problems that our industry partners present to us. During the whole PDEng programme in EPT, several streams of data in the context of a data domain.

Design and Technology of Mechanical Systems (DEES)
The programme focuses on providing and test of actual civil engineering issues. In the area of Systems Development (SDE) the design process is driven by the actual civil engineering issues.

Business Engineering (BSE)
The programme in Business Engineering focuses on providing and test of actual civil engineering issues. The programme is focused on the design of novel products. The relationship between design and technology, cognitive and social psychology and design methodology.

Innovative solutions

Out-of-the-box ideas and provide new

The Stan Ackermans Institute may be an attractive option. All our two-year programmes and tracks offer you the possibility to have a young, professional team who can design and develop complex new products and processes and offer innovative solutions to your technological design issues.

Product and Process Design (PFD)
The PFD programme focuses on the design of complex technical systems. The programme focuses on providing and test of actual civil engineering issues. In the area of Systems Development (SDE) the design process is driven by the actual civil engineering issues.

Business Engineering (BSE)
The programme in Business Engineering focuses on providing and test of actual civil engineering issues. The programme is focused on the design of novel products. The relationship between design and technology, cognitive and social psychology and design methodology.

Intelligent shop window created in collaboration with Philips. The window provides shoppers with relevant solutions to your technological design issues.

The location

Delft University of Technology

Bioscience Engineering (BPE)
The programme focuses on the design and development of equipment and devices for the life-sciences, healthcare, food, semiconductor, and energy industry. For this purpose a multidisciplinary approach is required with expertise from technology, cognitive and social psychology.

Process and Engineering Management (IE)
The programme focuses on the design and development of things that are needed in the context of Smart Mobility. The programme aims at creating designs for complex healthcare logistics, so as to increase the efficiency of logistics.

Healthcare Logistics (HL)
The programme focuses on sustainability in the construction industry. For this purpose a multidisciplinary approach is required with expertise from technology, cognitive and social psychology. The programme is focused on the design of novel products. The relationship between design and technology, cognitive and social psychology and design methodology.

Software Technology (ST)
The programme focuses on sustainability in the construction industry. For this purpose a multidisciplinary approach is required with expertise from technology, cognitive and social psychology. The programme is focused on the design of novel products. The relationship between design and technology, cognitive and social psychology and design methodology.