



Professional Doctorate in Engineering (PDEng)

THE INNOVATION DEGREE

PDEng Graduation Ceremony

By Mahsa Haji Vandi

On April 12, 2012, the Delft Product & Process Design Institute had the pleasure to congratulate 9 young professionals with obtaining their Professional Doctorate in Engineering (PDEng) degree. During the joint Graduation Ceremony, the combined achievements of the PDEng graduates of the following PDEng programmes were celebrated:

Process and Equipment Design

Raza-e-Mustafa Shah PDEng

Design Project at ASPECTS (TU Delft, Universiteit van Amsterdam)
UvA supervisor: Prof. dr. G. Rothenberg
TU Delft supervisors: Prof. dr. F. Kapteijn, Dr. ir. M. Makkee, Ir. Drs. G. Bierman PDEng

Constantinos Krokos PDEng

Design Project at ECN
ECN supervisor: Dr. J. Pels
TU Delft supervisors: Prof. dr. ir. H.E.A. van den Akker, Ir. J. Dijk, Ir. P.L.J. Swinkels

Fatma Melis Tunc PDEng

Design Project at BERKO
BERKO supervisor: P.P.M. Kokke
TU Delft supervisors: Prof. dr. E.J.R. Sudhölter, Ir. J. Dijk

BioProcess Engineering

Alicia Peris Lazaro PDEng

Design Project at Crucell
Crucell supervisor: Dr. J. de Zwart
TU Delft supervisors: Prof. dr. ir. J.J. Heijnen, Dr. ir. P.J.T. Verheijen

Andrea Gutierrez Morales PDEng

Design Project at ISPT/Unilever
Unilever supervisor: Dr. P. van den Akker
TU Delft supervisors: Dr. ir. M. Ottens, Ir. Drs. G. Bierman PDEng

Juan Felipe Solarte Vasquez PDEng

Design Project at DSM
DSM supervisor: Dr. R. van Beckhoven
TU Delft supervisor: Dr. ir. M. Ottens

BioProduct Design

Feras Alazi PDEng

Design Project at Crucell
Crucell supervisor: Dr. M. de Vocht
TU Delft supervisor: Dr. ir. M. Ottens, Prof. dr. ir. K. van het Riet

Jekaterina Aleksejeva

Design Project at Philips
Philips supervisor: Dr. R. Wimberger-Friedl
TU Delft supervisor: Prof. dr. ir. J.H. de Winde, Prof. dr. ir. K. van het Riet

Ayşe Gizem Seber

Design Project at BIRD/BE-Basic
BIRD supervisor: Dr. H. Ruijsenaars
TU Delft supervisor: Prof. dr. ir. J.H. de Winde, Prof. dr. ir. K. van her Riet

Chairman of the ceremony: Prof. dr. E.J.R. Sudhölter

Ceremony lecture: "TU Delft Process Technology Institute: connecting research, education & design" by Prof. dr. ir. A.I. Stankiewicz



Alicia Peris Lazaro

Currently a Process Engineer at DSM Biologics

All PDEng trainees from my promotion have found a satisfying position within two months after finishing the programme. This shows that companies recognize the added value of this formation, as well.



Feras Alazi

Currently Engineer at Crucell

The individual design project, which is one of the key attributes of the programme, provided the chance to test everything I had learnt in a biotechnology company. I could clearly evaluate my strengths and weaknesses which eventually lead me to find the job I desired.

Here is what Constantinos Krokos, Alicia Peris Lazaro and Feras Alazi graduates from Process and Equipment Design, BioProcess Engineering and BioProduct Design say about their experiences:

Constantinos Krokos

I certainly got the exposure in industrial projects I wanted since I worked for two different companies for a sum of one and a half years. The entire second year of my training I was actually working at the company's location and merged with the company's employees.

I soon realized though that the exposure to industrial projects was just a small part of the PDEng program. During the two years training I broadened my knowledge horizons through advanced courses. I even participate in a six-month course given by TU Delft for professional engineers from several companies and worked with them in a team for the course assignments. In addition, I manage to improve my organization and time management skills, since I was responsible for building and executing my own study program.

Last but not least the whole PDEng trainee program was a huge social experience as well. During these two years I met and work with people from all around the world. I learned their mentality, their way of, communicating and working.

Closing, I consider the PDEng trainee program an excellent experience from both professional and personal perspective. Now by looking in the past I am sure that joining this program was a good decision.

Alicia Peris Lazaro

From my experience, these two years have been challenging, but have also provided me a solid background to start in the industry with confidence. During this period, my colleagues and I have gained valuable technical knowledge

and experience; we have learnt teamwork, leadership and we have shared different cultures; we have established contact with prestigious companies. In other words, we have become professionals, ready to start a bright career.

Feras Alazi

It is not always possible though, for a fresh graduate, to find the right environment where he/she can work as a professional but keep learning as a student. In that sense, PDEng programme offers a unique opportunity to keep on learning while providing professional practice experience. What pleasantly surprised me was the high level of collaboration with biotechnology industry and of course, benefits resulting from this interaction. In this perspective courses are not only offered in a traditional way where students are supposed to periodically do assignments, homework, exams, etc., but rather in a more interactive and challenging way.

The PDEng traineeship programmes have shown to be effective in different settings. There is a rising demand from as well the industries as trainees for PDEng programmes in more areas related to technological design. To meet this demand the Delft Product & Process Design Institute is introducing a new PDEng programme in Chemical Product Design. The Chemical Product Design programme is scheduled to start September 1st 2012. This new PDEng programme complements the three existing post-MSc designer programmes.

The PDEng traineeships offered are fulltime, salaried, take two years, and are the bridge from academy to the industry.

For more information about the PDEng programmes please visit:

www.pdeng.tudelft.nl



Constantinos Krokos

Currently a Process Engineer at BiChem

The Group Design Project was a life experience itself. A six-month team working project that all trainees are still talking about. I found out that being a good team player is extremely challenging. It demands those team working skills that you are asked for during job interviews.