



# Professional Doctorate in Engineering (PDEng)

THE INNOVATION DEGREE

## PDEng Graduation Ceremony

By Mahsa Haji Vandi

On November 8, 2012, the Delft Product & Process Design Institute had the pleasure to congratulate 12 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*

#### **Cem Ozgur PDEng**

Design Project for ISPT  
ISPT supervisor: ISPT user group J.A. Lycklama a Nijeholt (ECN)  
TU Delft supervisors: Dr.ir. C.A. Infante Ferreira (3mE-Process & Energy)  
Ir. Drs. G. Bierman PDEng

#### **Dogan Yilmaz PDEng**

Design Project for ISPT  
ISPT supervisors: Prof. dr.ir. P.M.J. van den Hof, Dr. L. Ozkan (TU/e)  
TU Delft supervisors: Ir. M.W. Lambrichts, Ir. Drs. G. Bierman, Ir. P.L.J. Swinkels

#### **Dragana Pijetlovic PDEng**

Design Project at AkzoNobel  
AkzoNobel supervisor: Dr.ir. M.T. de Groot  
TU Delft supervisors: Prof.dr.ir. H.E.A. van den Akker, Ir.Drs. G. Bierman PDEng

### *BioProcess Engineering*

#### **Azadeh Bassam PDEng**

Design Project at Purac  
Purac supervisor: Dr.ir. W.C. Groot  
TU Delft supervisor: Dr.ir. A.J.J. Straathof

#### **Ashkan Farzad PDEng**

Design Project for STW  
STW supervisor: Dr.ir. R. Kleerebezem  
TU Delft supervisors: Dr. M. C. Cuellar PDEng, Ir. Drs. G. Bierman PDEng

#### **Julian Munoz Sierra PDEng**

Design Project at Siemens India  
Siemens supervisors: Dr. A. Chavan, P. Bhamawat, V. Hande  
TU Delft supervisor: Prof.dr.ir. M.C.M. van Loosdrecht

#### **Ana Maria Echavarria Alvarez PDEng**

Design Project at Purac  
Purac supervisors: Dr.ir. W.C. Groot, Prof.dr.ir. A. de Haan, D. Sanchez Garcia PDEng  
TU Delft supervisor: Dr.ir. R. Kleerebezem

#### **Carolina Villa Sanin PDEng**

Design Project at Bird Engineering  
Bird supervisor: Ir. H. Ruijssenaars  
TU Delft supervisors: Prof.dr.ir. L.A.M. van der Wielen, Ir. U. Jacobs

### *BioProduct Design*

#### **Umut Demirtas PDEng**

Design Project at Janssen Biologics  
Janssen Biologics supervisors: F.J. Nagel, M. Hopkins  
TU Delft supervisors: Prof. dr. ir. K. van het Riet, Drs. J.A. Kiers

#### **Snehal Patil PDEng**

Design Project at Janssen Biologics  
Janssen Biologics supervisors: F.J. Nagel, L. Jacobs  
TU Delft supervisors: Prof. dr. ir. K. van het Riet, Drs. J.A. Kiers

#### **Kanika Bailey PDEng**

Design Project at DiagnOptics  
DiagnOptics supervisor: B. van den Berg  
TU Delft supervisors: Prof. dr. ir. K. van het Riet, Drs. J.A. Kiers

#### **Alex Boscolo PDEng**

Design Project at Unilever  
Unilever supervisor: Ir. S. Dubbelman PDEng  
TU Delft supervisors: Prof. dr. ir. K. van het Riet, Drs. J.A. Kiers

*Chairman of the ceremony:* Prof.dr. J.H. de Winde

*Ceremony lecture: "From Process to Product Design in Potato Refining"* by Dr.ir. M.L.F. Giuseppin, CTO AVEBE



Snehal Patil

Currently Associate Scientist at Janssen Biologics

I am in the Netherlands for almost four years now. Two years back, my research experience in academics motivated me to step into the industrial environment. However, I realized that just the motivation is not enough to have a good start in the life science industry. I was missing out something. And at the same time, I came to know about the PDEng program in BioProduct Design. While scrolling down the brochure, I got immensely impressed by the specialization that one can choose based on the educational background, the group work, the emphasis on broadening and deepening of technical knowledge along with the managerial skills. The structure of program really convinced me that this program is the right channel to have a good start in the life science industry.

The experience during the two years of PDEng was enriching. For me the first year started from individual projects/assignments based on the courses and ended with the group design project. This was a nice opportunity to find out my weak points and work on them. The first year in general made me ready to manage the extensive second year design project. During the second year I got the opportunity to work in a well-known biopharmaceutical company. The integral and important part of second year was the supervision by experts who had years of experience in the field. It was a nice experience working with them.

After these two years I feel, I found that “something” which I was missing before starting the PDEng program. I think the PDEng traineeship is all about designing the approach towards problem solving. This program is surely valuable for those who think they are not yet ready for real life projects in industry. Nonetheless, the positive energy and dedication are the keys to extract the maximum output during this program.



Cem Ozgur

Currently Materials & Corrosion Engineer at Shell

My PDEng journey started way before I actually enrolled to the Process & Equipment Design (PED) program. Meeting with Jan Dijk and Pieter Swinkels one after another during my senior year of BSc studies in Istanbul inspired me to think of my future in quite a different way. Back then, in 2007-2008, I have created a dream for myself: An international professional career starting in Europe. So my journey began.

During the two years I have learned what “hardworking” really is. I have completed numerous advanced courses given by individual institutes as well as highly ranked universities. I have shared my desk with PhD’s and PostDoc’s discussing subjects in various technical fields. My experience with my rigorous course program not only deepened my knowledge on chosen subjects, but also gave me a broad view of the interconnected

engineering world. Besides all, most of my time was spent with the real design project work, thus directly in contact with and working for large companies. I have seen what it is to manage your own project like, and I have experienced the real-life pressure of industrial tasks.

Before enrolling to the program, I’ve expected to have a smooth shift from an academic life to the professional life. This is exactly what happened. Therefore I would strongly advice the PED PDEng program to those who want to make a flying start to their industrial career. If you want to be the one who chooses the job, employer and conditions, and not being chosen, after PDEng so will be it. Also the ones who still cannot decide between academic or industrial careers; you will have your answer after this program without having a huge loss of your life time and being paid like a regular employee.

Today, I am living my dream, being almost sure that it would not be the way it is without the PED PDEng program experience. With or without a PDEng, I hope you can live yours!

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.

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

For more information about the TU Delft PDEng programmes please visit:

[www.pdeng.tudelft.nl](http://www.pdeng.tudelft.nl)

[www.facebook.com/DPPDI](https://www.facebook.com/DPPDI)