



# Doing an Internship

## The do's and don'ts

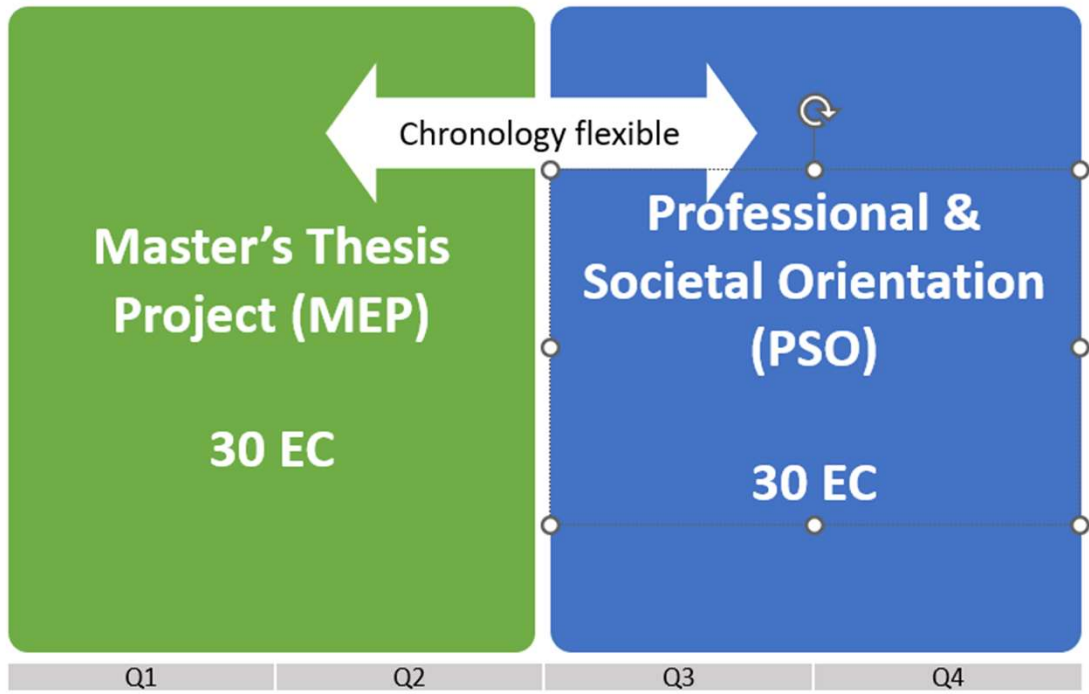
Product and Process Engineering-Dept of Chemical Engineering  
Faculty of Applied Sciences-Delft University of Technology



Gabrie Meesters  
ChemE/ PPE  
Kamer F2.430  
g.m.h.meesters@tudelft.nl

# Compulsory internship

- **When:** typically before or after your MEP
- **Duration:** currently minimum 3 months. In new curriculum min 3 months but can be extended to 6 months **for which you get (partially) the credits:**
- **Where:** At a company. Not at another university
- **Where:** In NL, Europe or outside europe
  - Outside of the Netherlands, contact me! We need to arrange for certain things like travel and insurances



- PSO**  
Choose from:
- Research & Development
  - Science & Technology
  - Management of Technology
  - Education
  - Study Abroad

Second year of the master phase

tudelft.nl/onderwijs/opleidingen/masters/cheme/msc-chemical-engineering/programme/second-year-curriculum/professional-societal-orientation

Google Translate short cuts pensioen TU Delft: TU Delft... TU Delft - TNW For... Marktplaats - De... Ouriginal Quick Su... NOS Teletekst OnStage stagegoed... All Book

**TU Delft** Onderwijs Onderzoek Innovatie & Impact Actueel Over TU Delft

Technische Universiteit Delft > Onderwijs > Opleidingen > Masters > ChemE > MSc Chemical Engineering > Programme > Second-year curriculum > Professional & Societal Orientation

## Professional & Societal Orientation

Students have the opportunity to personalise a significant part of their programme by selecting one of the following for their Professional & Societal Orientation (PSO). Students are encouraged to personalise their curriculum by selecting a particular path of study which will prepare them best for their intended future career. Students must select one of the following five personalisations within the PSO programme.

- [Research & Development](#)
- [Science & Technology](#)
- [Management of Technology](#)
- [Education](#)
- [Study abroad](#)

First-year curriculum

Second-year curriculum

Master's Thesis Project

Professional & Societal Orientation

Research & Development

Science & Technology

Management of

Depending on your PSO choice you have different options. Have a look at it!!

tudelft.nl/onderwijs/opleidingen/masters/cheme/msc-chemical-engineering/programme/second-year-curriculum/professional-societal-orientation/research-development

Master's Thesis Project

Professional & Societal Orientation

- Research & Development
- Science & Technology
- Management of Technology
- Education
- Study abroad

## Research & Development

The Research and Development PSO is suggested for students interested in commercial R&D. Students will complete an industrial internship outside of TU Delft (internships at universities and academic institutions are not allowed). Students can choose between a wide range of relevant host firms, from start-ups to large multinationals and contractors, in such sectors as oil, food and bioscience. Assessment is by the company's in-house supervisor, working with and under the responsibility of the academic supervisor from TU Delft, and is based heavily upon on the student's written report and a final discussion. The internship comprises of 18 or 24 EC, depending on the preferences of the student and company. The remaining 6 or 12 EC can be spent on electives or a MEP extension (only with shorter internship where 12 EC remain).

Industrial Internship (18 EC)		Electives (12 EC)		
Industrial Internship (18 EC)		MEP Extension (12 EC)		
Industrial Internship (24 EC)		Electives (6 EC)		
6	12	18	24	30
EC				

tudelft.nl/onderwijs/opleidingen/masters/cheme/msc-chemical-engineering/programme/second-year-curriculum/professional-societal-orientation/science-technology

Master's Thesis Project

Professional & Societal Orientation

- Research & Development
- Science & Technology
- Management of Technology
- Education
- Study abroad

## Science & Technology

The Science and Technology PSO allows students to undertake an additional research project outside of the department (15 EC). Students are encouraged to look outside of the university for this project. The remaining 15 EC can either be entirely spent on electives or split between a MEP extension (12 EC) and an elective (3 EC).

External Research Project (15 EC)		Electives (15 EC)		
External Research Project (15 EC)		Elective (3 EC)	MEP Extension (12 EC)	
6	12	18	24	30
EC				

Standard MEP is 30 EC

# Organising the Internship at the Faculty

We use the platform OnStage

Every document will be on your own OnStage Page

The OnStage logo consists of the word "OnStage" in a bold, yellow, sans-serif font, set against a solid black rectangular background.

You need to upload your documents yourself

Grading forms are uploaded by company supervisors and university supervisors themselves.

...so, get your OnStage page activated when starting to look for internships

< Close main menu

Dashboard ^

My students

My dossier activities

Vacancy database

Help

Feedback





















Student's name



Filter



Sort by...

<input type="checkbox"/>	Student	Activity
<input type="checkbox"/>	 Levering, L. (Lies) 5174953	 
<input type="checkbox"/>	 Peketi, Vishnu 5542731	 
<input type="checkbox"/>	 Rijen, Steef van 4979478	 
<input type="checkbox"/>	 Roeden, T.F.J. (Thomas) van 4695801	 
<input type="checkbox"/>	 Sammeck, P.J. (Paula) 5837804	 
<input type="checkbox"/>	 Vries, J.T. (Jorn) de 5188865	 

Rows per page

25

1-6 of 6



# OnStage

OnStage

← Levering, L. (Lies)

🔍 Search for student

← Close main menu

🏠 Dashboard ^

🎓 My students

📁 My dossier activities

🔍 Vacancy database

🔍 Help

💬 Feedback

TU Delft  
Delft University of Technology

GM Gabriele Meesters

📄 COVER

📅 ACTIVITIES

💬 NOTES

📎 DOCUMENTS

🔍 Keyword

🔍 ?

☰

Filter

↕

Sort by...

Last attempt ✕

Document

Activity

Uploaded on

?

Stageovereenkomst\_Lies\_Lev  
Handed in document in  
review session

Submit signed internship contract  
Attempt 1

05-09-2024 14:01  
by Linda van der Elst

Beoordelingsformulier\_Roela  
de Wit.pdf  
Evaluation form

Submit project description  
Attempt 1

05-09-2024 09:08  
by Roeland de Wit

Beoordelingsformulier\_Gabri  
Meesters.pdf  
Evaluation form

Submit project description  
Attempt 1

04-09-2024 14:45  
by Gabriele Meesters

Project description Lies  
Levering (002).docx  
Handed in document

Submit project description  
Attempt 1

04-09-2024 12:45  
by Lies Levering

Project description Lies  
Levering (002).pdf  
Handed in document in

Submit project description  
Attempt 1

04-09-2024 12:45  
by Lies Levering



# OnStage

## OnStage

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My students

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GM Gabriele Meesters

← Levering, L. (Lies)

Search for student



COVER

ACTIVITIES

NOTES

DOCUMENTS

Execution phase Activities



Lies Levering | 5171953  
Chemical Engineering start date  
internship between  
9-9-2024 - 10-2-2025  
ChainCraft B.V.

Execution phase step-by-...

Send link assessment form to supervisors  
CO

Submit internship report  
S

Submit experience report  
S

Upload assessment and assessment for...  
CS, PTS

+ Upload assessment and assessment for...  
AS1

# OnStage

1 van 1

– + Automatisch zoomen ▾

**Please fill out this form digitally.**

## Project description

For approval of the TU Delft supervisor, please describe the content of the project.

Project title (subject)

### **Synthetic fuels: are they good for the climate and economy?**

Overview of the project

ING works with global scenarios for the energy transition to assess transition risks and opportunities of the energy transition and physical risks from climate change. The scenarios show that synthetic fuels are important to green hard to abate sectors such as aviation, shipping, trucking and manufacturing. ING Research wants to better understand the economic business case of synthetic fuels and assess when they will be cost competitive with fossil fuels. As economist we lack the technical knowledge in this complex topic. That's why a student in chemistry can add value to the project.

Describe the work to be performed in detail

- 1) Analyse the production process of synthetic fuels
- 2) Determine the main economic value drivers of the business case
- 3) Model the business case in excel, for both the current and future production costs of synthetic fuels
- 4) Perform scenario analyses on future production costs and the cost competitiveness with fossil fuels in both Europe and other part of the world. E.g. when are they cost competitive and is it cheaper to produce synthetic fuels in Europe or import them from other parts of the world.

Close main menu

Dashboard

My students

My dossier activities

Vacancy database

Help

Feedback



GM Gabriele Meesters

COVER

ACTIVITIES

NOTES

DOCUMENTS

Execution phase Activities



Lies Levering | 5174953  
Chemical Engineering start date  
internship between  
9-9-2024 - 10-2-2025  
ChainCraft B.V.

[L.Levering@student.tudelft.nl](mailto:L.Levering@student.tudelft.nl)



Master Chemical Engineering



# Crebo number: 60437

Registered for study  
1-9-2023


### Coaches



Gabrie Meesters  
First assessor

You may choose  
your Favorite  
teacher!!!


# Internship links on Brightspace







Stagebureau TNW / Internship Office Applied Sciences

AS, Organization


Ongoing




Stagebureau TNW / Internship Office Ap...



Course Home Content Help

Search Topics 

 Bookmarks



 Course Schedule


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Welcome

1. Orientation 970

2. Application

Table of Contents 

 Download

0 % 0 of 981 topics complete

Welcome

Welcome to the Brightspace page of the Internship Office Applied Scienc

The entire internship process is divided into four phases, this Brightspace the same way:

## Online internship registration

×

Posted 21 January, 2019 14:33

Dear student,

Your internship is one of the very exciting parts of your MSc programme and forms a great opportunity to get to know a company where you might like to work in the future., The process of finding and performing the internship improves your skills in many aspects relevant for your future, especially when applying for a job outside the academic environment. Once you have found an internship, you will have to register it at the Internship Office Applied Sciences to make sure the project complies with the regulations and to obtain credits for the internship. As of today the Internship Office has started working with the online registration system *OnStage*:

<https://tudelft-onstage.xebic.com/> Your internship file in *OnStage* will give a clear overview of all tasks and responsibilities within the internship process.

You can find an OnStage Manual [here](#).

If you have any questions, please don't hesitate to contact us.

Kind regards,











Internship Office Applied Sciences

0 % 0 of 9/0 topics complete

- 1. Orientation **970**
  - Important Information **1**
  - Internship Offers **227**
  - Internship Experiences **742**
- 2. Application
- 3. Preparations **11**
- Conclusion
- FAQ

### Important Information

Read these files before starting with (looking for) your internship.

- [Internship procedure @ Applied Sciences](#)  PDF document 
- [Step-by-step guide internship](#)  PDF document 
- [Tips on how to find an internship](#)  Word Document 
- [Internship contract](#)  Web Page 
- [Grading scheme](#)  Word Document 

Internship Experiences

Experiences in the Netherlands

Experiences abroad

Nanobiology research internships (NB4065)

Applied Nanolayers 3

Applus RTD Certification 1

AquaBattery 4

Arthur D. Little 2

ASML 15

Astroplant 1

ATG Europe 1

Atos

Bain & Company 1

Bilfinger Tebodin 1

## Mandatory: UNL agreement ×

Posted 21 February, 2023 14:37

When doing an internship in the Netherlands, it is mandatory that the national UNL contract is signed by the company. The UNL contract is not yet required for internships done abroad but is strongly encouraged.

Without a signed contract, your internship is not valid.

Check with the company in advance if they are willing to sign the UNL contract. TU Delft no longer signs other contracts. If the company is not willing to sign the UNL contract, you cannot do an internship there. If you have any questions about this, please send an email to [internshipoffice-tnw@tudelft.nl](mailto:internshipoffice-tnw@tudelft.nl)

At the moment, the following companies do not want to sign the UNL contract. So you can't do an internship here at the moment:

JOHNSON & JOHNSON

QUANTWARE

JANSSEN

Attachment(s):

 [Explanatory note UNL inter...](#) (98,81 KB)

 [Internship agreement-UNL-...](#) (126,72 KB)



# What you should do

- Start **3-4 months ahead** of time when you want to do your internship
- 3,4, 5 or 6 months internships? (look at your required Ecs!!)
- Look through the **Experience reports**. It gives you a list of companies but also experiences from fellow students who did internships
- Decide what **type of company** you would like to work
  - **Engineering firms** like Fluor, Royal Haskoning, FMC Energies, WorleyAdvisions
  - **On sites** of companies like Shell, ExxonMobile, Nouryon, etc
  - At a **bank**, in a **governmental agency**, **start ups**, etc
- Start sending **emails with your motivation** why you want to do an internship there and include a **good CV**
- When you have the OK, find **yourself an internship supervisor** from one of our Pi's (TU Supervisor). When in doubt who to ask, come to me
- PI has to OK your description of the internship through OnStage.
- Start the internship and **coordinate regular meetings** with your TU supervisor

Call: +3162799029  
 LinkedIn: www.linkedin.com/in/ahsunali  
 Email: ahsunali3@gmail.com  
 Location: Delft

## AHSUN ALI

Experienced Chemical Engineer



### EDUCATION

**MSC Chemical Engineering** Sep 2019 - present  
 TU Delft, Netherlands  
 • One of the two international TU Delft Excellence Scholarship recipient  
 • Optimized Lactide production process to reduce production costs for nature's principles  
 • Studied Mechanism to Hydrocarbon reaction mechanism as part of MSc thesis

**BS Chemical Engineering** Sep 2012 - Jun 2016  
 NUST, Pakistan  
 • Placed on Dean's High achiever list for 4 times

### WORK EXPERIENCE

**Production Engineer** Jul 2018 - Jun 2019  
 Engro Fertilizers, Pakistan  
 • Used Six Sigma yellow belt certification to save € 53,000 at high capacity line plant  
 • Successfully used Dupont RSM system and HSE training to achieve zero incident year  
 • Actively participated in 2 cyclic PHA studies as part time member  
 • Used team leadership skills to train 3 field operators and lead 20 member team on line plant

### HOBBIES & INTERESTS

Weight training Music Reading

### SOFTWARE SKILLS

Aspen Plus Aspen HYSYS MATLAB MS Office  
**LANGUAGES**  
 Dutch (intermediate to fluency) English (Native/Fluent)  
 Urdu (Native/Fluent) Punjabi (Native/Fluent)

### QUALIFICATIONS SUMMARY

Expertise in process optimization Analytical problem solver  
 Adaptable to diverse work environment Expertise in team leading

# A good CV



## Floris van Dockum

Chemical Engineer

Floris.vandockum@tue.nl  
 Oostindie 248, 2611 SW Delft, Netherlands  
 LinkedIn.com/in/florisvandockum  
 +31613360883  
 02-04-1996

### Education

**MSC. Chemical Engineering**  
 2019 - Present @ Delft University of Technology  
 • Thesis subject: The Electrochemical Reduction of CO<sub>2</sub> to Ethylene and other fuels.

**BSc. Molecular Science & Technology**  
 2014 - 2019 @ Delft University of Technology  
 • Thesis subject: Using Atomic Layer Deposition to improve catalysts for water purification.  
 • Minor: Business Sciences at Leiden University

**Diploma Pre-university Education**  
 2008 - 2014 @ CSW Van de Perre, Midsloburg  
 • Preparatory scientific education with a technology orientated profile with history and economic as extra courses.

### Experience

**Symposium Committee**  
 2018 - Present @ Technologisch Geselschap  
 • Responsible for the content and organisation of a symposium about the challenges of process electrification. With, among others, speakers such as the President-director of Royal Dutch Shell, COO of ENGIE and the deputy director of the MIT Energy Initiative.

### Advisory Board

2018 - Present @ Technologisch Geselschap  
 • The advisory board supports the current board and committees. It taught me how and when to give my opinion.

### Secretary of the Board

2017 - 2018 @ Technologisch Geselschap  
 • After a variety of smaller committees I was asked to join the board of the study association. The whole year was one great team effort full of interesting situations that required organisational- and social skills.

### Skills and Attributes

Assertive Problem Solver  
 Considerate Involved  
 Enjoys Challenge Flexible

### Computer Skills

Matlab Python  
 InDesign Excel

### Languages

Dutch Native Speaker  
 English Fluent  
 French Basic

### Hobby's

Running Strategy Games  
 Socializing Field Hockey

### Other Activities

Emergency Response Worker  
 Field Hockey Trainer  
 Teaching Assistant

## Quentin van Driel

### ABOUT ME

As an engineer I am trained to solve complex problems and make rational decisions using a structured approach. My passion lies in creative design and application of mathematics/physics through teamwork. I highly value contribution to, and learning with, a diverse team to find efficient and sustainable solutions. Therefore I seek an ambitious and inspiring team rather than a favourable contract.

### EDUCATION

2014 - **MSC Chemical Engineering** fudelft  
 Tracks: Process Engineering, Catalysis, Carbon capture, reaction (SRU), Thermo, Specializing in: Acetic acid fermentation

2014 - **BSc Molecular Science & Technology** fudelft  
 Major: Technology, Minor: Mathematics, Physics (EVO), Thermo, When presentation self-organized and material characterization of PVC (SRU) (SRU)

2007 - **VWO TTD**  
 Science & Technology, Science & Health (English, English exam)

### BIO

Born on 19th May 1995  
 Nationality: Dutch  
 Born location: Grootenbroek, NL  
 Hobbies: Field hockey, cycling, snowboarding, and cooking

### EXPERIENCE

**ING Sustainable Investments | Intern**  
 03/2019 - 06/2019  
 Assisted in all aspects of the investment process  
 Reporting directly to the head of ING Sustainable Investments

**Various side jobs**  
 2013 - 2019  
 Job Training Coach (JobNet Job Training)  
 Service manager (Retail pharmacy)  
 Chief/Team leader (Internship)  
**Erasmus Study-support | Tutor**  
 2003 - 2009  
 Teaching high school students

### SKILLS

Quality  
 Teamwork  
 Self-organization  
 Analytical capability

### CONTACT

Address: Coolhaven 42D, 3004AD Rotterdam  
 Email address: q.vandriel@tue.nl  
 Skype: vandriel  
 Phone number: +31 654 1952797  
 LinkedIn: linkedin.com/in/quentinvandriel

## Dominik BENZ

Leadership @ Teamwork @ Critical Thinking  
 I am a passionate person who likes to work in a team both at work and in leisure time. I follow my goals and I am highly motivated to reach them. I enjoy my studies, my social life and my hobbies. My ideal working environment is one that allows me to take responsibility both in the working group and as a coach for University students.

### My profile

German  
 26-June-1990  
 Korvenstraat 322  
 2623DP Delft,  
 Netherlands  
 domini.benz@gmail.com  
 +31647640308

### Skills

**Language skills**  
 ALD, TEM, SEM,  
 TGA, FTIR, DLS,  
 XPS, NMR, MS,  
 Electrochemistry

**Software skills**  
 Microsoft Office  
 Adobe Illustrator  
 Adobe InDesign  
 Origin  
 Python

### Education

Since 02/2016 **Delft University of Technology, The Netherlands**  
**PhD CANDIDATE** Center of Process and Process Engineering (CPPE), TU Delft  
 Major: structured metal oxide photocatalysis for water treatment

09/2019 **Pharos University, Warsaw, Vietnam**  
**Research stay**  
 In the framework of the Delft Global Initiative I got the chance to get a first-hand experience on the water purification field. Together with my colleagues from TU Delft we made water samples which were analyzed and treated with our developed photocatalytic membranes. I could compare the performance between the two systems by varying the process of a joint publication.

10/2013 - 10/2015 **Friedrich-Alexander University of Erlangen-Nuremberg, Germany**  
**Molecular Nano Science (MNS)**  
 Bachelor degree of their BSc with the scientific paper description

07/2014 - 11/2014 **University of Wollongong, Australia**  
**DAAD exchange scholarship**  
 Project: Synthesis and structural characterization of hydrogen materials  
 In my master thesis I worked on a project to develop a measurement for analyzing the electrical conductivity of hydrogen. Therefore, we used membranes of the hydrogen and followed by testing the compressive strength and the influence of the conductivity on the application.

04/2011 - 09/2013 **Friedrich-Alexander University of Erlangen-Nuremberg, Germany**  
**Molecular Science (MNS)**  
 Synthesis of functionalized dendritic complexes for redox storage molecules  
 For my BSc thesis project I worked on the total synthesis of dendritic molecules with the aim to make a redox storage molecule. I used the Schotten-Baumann technique to synthesize compounds in dendritic molecules with functional groups including amine, ester, ether and hydroxyl groups.

09/2000 - 06/2010 **Secondary School, Hildesheim, Germany**  
 Chemistry, Latin, Maths, Geography



## KEVIN CLEMENS

23-05-1998  
 Uitenhage 128, Leiden  
 Chemical Engineer

### OPLEIDING

**MSc Chemical Engineering**  
 Feb 2018 - March 21, 2019  
 Track: Process Engineering  
 Thesis: Electrochemical Nitrate reduction - EIS Characterization (English) - Co-supervised by Prof. Dr. S. S. S.

**BSc Molecular Science & Technology**  
 Sep 2014 - Feb 2018 | TU Delft & Universiteit Leiden  
 Minor: Chemical Engineering  
 Minor: Electrical Sustainable Energy Systems  
 Thesis: Electrochemical Nitrate reduction - EIS

**VWO - Natuur & Techniek**  
 Sep 2008 - Jun 2014 | Technische Universiteit Leiden  
 Leiden

### WERKVERVARING

**Researcher** | **Wageningen**  
 Mar 2020 - Present  
 Researcher in the research group of the Delft University of Technology.

**Workshop Organizer** | **Wageningen**  
 Feb 2018 - Jun 2018  
 Individueel en klassikaal bijeen in natuur, voor en achtergrond aan de Delft University of Technology.

**Ag Chemist** | **Project coordinator**  
 Nov 2018 - Aug 2018  
 Data analysis voor een energieproject in Noord-Nieuw-Guinea.

**Workshop Organizer** | **Wageningen**  
 Mar 2018 - Jun 2018  
 Samenwerking met de Delft University of Technology.

### VAARDIGHEDEN

Vloeiend in het Engels  
 Goede kennis van de Nederlandse taal  
 Goede kennis van de Duitse taal  
 Goede kennis van de Franse taal  
 Goede kennis van de Spaanse taal

## CV



### Biography

Otman is a brave chemical engineer with a plethora of research. His passion working in a program with members of diverse backgrounds, but can handle international tasks and as well. He is a very good worker of team work, and can easily work for an overall excellent. He likes to use his leadership skills and a eager to learn new things. He address to research in his job as he will be involved in various cultural activities while working around the globe.

### Education

**Chemical Engineering (M.Sc.)** 11/2018 - online  
 TU Delft  
 • 17.02.046 in Rotterdam

**Briefing Program - Applied Physics** 04/2018 - 07/2018  
 TU Delft

**Chemical Engineering (B.Sc.)** 04/2016 - 07/2018  
 TU Delft  
 Minor: Applied physics

### Research Experience

**Master thesis | TU Delft - Delft** 04/2018 - online  
 Characterization of Process Engineering Modeling (Energy Performance) in an Industrial Dry Copolymer

**Master thesis | TU Delft - Delft** 04/2018 - online  
 Optimizing a CFD model for an industrial spray atomizer with a nozzle in practice. The CFD model tests with affordable numerical investigations that help economy of the membrane in the spray.

**Search group project | Delft** 04/2018 - 07/2018  
 PVDF Membrane Production from Organic Waste Streams

**Work on a continuous design process for an industrial application of PVDF**  
 Provide an optimal solution for the membrane process for the membrane process for PVDF for industrial application to reduce the process of natural gas burners becoming economically attractive.

**Internship | Delft, Subst. Sciences** 02/2018 - 02/2018  
 Glassmaking: Changing Glass in the Field of Handing Copolymer

An in-depth study on the performance of hand-drawn glass membranes in porous membranes using powder handling operations. Provide solutions to increase or decrease flow changes and enhance the efficiency of such operations.

## CV

### Languages

Arabic: C1  
 Dutch: C1  
 English: C1  
 French: B2  
 Spanish: A1

### Work Experience

**International Innovation Competition** 04/2018 - 04/2018  
 Technologisch Geselschap - TU Delft  
 Competition & entry in honor of the 150th anniversary of the Chemical Engineering study association of the TU Delft

**Calculi working sessions** 04/2018 - 02/2018  
 Universiteit Leiden  
 Helping bachelor students with Calculi homework assignments.

**Operator | Alben Haps** 04/2016 - 07/2016  
 Delft University of Technology  
 Operating an automated system to fill containers with goods and study them for transport.

### Additional Skills

Basic knowledge in Python, Java, and Java EE/JSP.

Delft, 26th January 2022  
 Otman Shouli

...not like this...



Hard-working university graduate with M.Sc. in Chemical Engineering and enthusiasm for energy transition; experience working on international, multidisciplinary teams

Address  
DeGauwseweg 35  
2528 EG  
Delft, The Netherlands

Telephone  
+31 6 87566127

E-mail  
ta.milosevic@gmail.com

LANGUAGES

English fluent  
Serbian native  
Dutch basic

SKILLS

AspenPlus intermediate  
LATEX intermediate  
MATLAB beginner  
Microsoft Office advanced  
CasaXPS proficient  
ChemBioDraw proficient  
Mview proficient

LAB TECHNIQUES

DSC (Differential Scanning Calorimetry)  
TGA (Thermogravimetric Analysis)  
NMR (Nuclear Magnetic Resonance)  
GPC (Gel Permeation Chromatography)  
XPS (X-Ray Photoelectron Spectroscopy)  
XRR (X-Ray Reflectivity)  
SEM (Scanning Electron Microscopy)  
ALD (Atomic Layer Deposition)  
Sputtering

EDUCATION

TU Delft, Delft, NL  
M.Sc. Chemical Engineering 2016 – 2020  
University of Groningen, Groningen, NL  
B. Sc. Chemical Engineering 2016 – 2018  
Int. School of Choueifat, Abu Dhabi, UAE  
High School Diploma, 5 GCSEs, 3 A-Levels 2011 – 2016

EXPERIENCE

**Intern**  
Corporate & Institutional Banking – Natural Resources  
ABN AMRO Bank N.V. June – September 2020

- Part of Energy Client Coverage EMEA team
- Analyzed hydrogen technologies from a technical and financial perspective
- Supported the bank in defining strategy in creating new opportunities for hydrogen technologies
- Prepared client pitchbooks
- Communicated relevant technical information to the financial team
- Supported the team with a number of ad-hoc tasks

**Graduate Researcher** September 2019 – July 2020  
TU Delft – Materials for Energy Conversion and Storage Group

- Project: Synthesis of Thin-Film Iron Electrodes using ALD for Electrochemical Ammonia Production
- Cathetered research data and planned experiments, synthesized and tested electrodes
- Reported and presented the findings of the experiments to the supervisors

**Undergraduate Research Assistant (Part Time)**  
University of Groningen September – November 2017

- Project: Chemical Modification of Polyketones to Induce Self-Healing Properties in the Polymer
- Repeated experiments from previously published papers to verify the data

**Undergraduate Research Assistant (Full Time)**  
University of Groningen July – August 2017

- Project: Synthesis of Biodegradable Polyhydroxyalkanoates
- Modified polymers and tested the effects of various additives on the properties of biodegradable polymers
- Reported the experimental findings to supervisors

First Year Committee

De Chemische Binding October 2018 – September 2018

- Member of the First Year Committee of the Chemistry and Chemical Engineering association of Groningen
- Responsible for organizing and planning social activities for first year students

**Christian van der Sande**  
CV 2018  
CV 2016, M.Sc. Chemical (Process) Engineering  
Delft University of Technology  
Phone: +31 6 87566127  
ta.milosevic@tudelft.nl

**AREAS OF INTEREST**

My interests lie in implementing innovative solutions to chemical processes, along with attention also paid to the economic feasibility. I am passionate and knowledgeable about gas separation, heterogeneous catalysis, sustainable development and reactor engineering.

**EDUCATION**

2017-present Delft University of Technology  
M.Sc. Chemical Engineering  
Track: Process Engineering

2012-2017 Delft University of Technology & Leiden University  
B.Sc. Molecular Science and Technology (BSc Degree)  
Major: Chemical Technology  
Minor: Sustainable Development

2007-2010 Christelijk Lyceum Delft  
Pre-University Education, Operational

**EXPERIENCE**

Feb-May, 2018-Feb-May, 2017 Delft University of Technology  
Graduate Teaching Assistant

Teaching assistant for the undergraduate course Chemical Process Engineering

- Guiding students during the teaching classes
- Preparing detailed solutions and background theory of the exercises
- Preparing exam questions and correcting the exams

Nov 2016-Feb 2017 Delft University of Technology  
Student Supervisor

Teaching assistant for an undergraduate experimental research course

- Guiding students in the laboratory and setting their practical and analytical skills, clear instruction techniques and how to work safely
- Learning students how to process and analyze the obtained data using data processing software
- Having the responsibility to control the laboratory work and guide it accordingly

**PROJECTS**

Development of H<sub>2</sub>SO<sub>4</sub>-g N<sub>2</sub>O based absorbents for energy-efficient CO<sub>2</sub> for separation.  
Master Thesis Supervisor: Prof. Frank Kapteina, Prof. Kees van Wageningen  
Sept 2018-present

- Research towards developing a suitable reactor for realizing the industrial potential of CO<sub>2</sub> capture technologies
- The industrial absorbent design (DES) and process will be characterized on its structural properties and tested for separation performance towards both of water (distillate) and urea.

Conceptual design of a hydrogen fuel regeneration plant.  
Advisor: Dr. Anneke Oosterhuis  
May-July, 2018

- Project by TU Delft-system to design (PFD, FFD) and Aspen Plus21 a process to regenerate spent hydrogen fuel cell/stack membrane tanks (hydrogen fuel cell/stack technology)
- Equipment sizing (reactors, separation units, pumps)
- Economic and utility analysis of the process
- Formulation of mass balances for the final design

Mixed metal-organic framework polymer composites as Fischer-Tropsch catalysts.  
Master Thesis Supervisor: Prof. Frank Kapteina, Prof. Jasper Goumans  
Aug. 2016, 2017

- Design, synthesis and characterization of Metal-Organic Framework (MOF) based Fischer-Tropsch catalysts for syngas conversion to long-chain hydrocarbons

**EXTRA-CURRICULARS**

Oral presentation at the 12th national gas separation: Mediated Synthesis of Highly Active Ferrocene Co-based FTS Catalysts  
Aug. 2016

- F. Kapteina (co-author), G. Patz, F.J.C. van der Sande, F.A. Garcia Gomez, L. Oosterhuis, T.A. Wessels, E. van den Hul

Poster presentation at IChemE Chemical, Bioprocesses catalysis for the Hydrogen-Activated Fischer-Tropsch Synthesis (DIA-FTS)  
Apr. 2017

- Presented research on synthesis, characterization and catalytic testing of novel SA-FTS catalysts

**ASSOCIATION ACTIVITIES**

2017-present Member Techniekwerk Dordrecht  
2017-2018 Member Chemisch Depot Leiden  
2016-present Member and initiator local club at Eindhoven

**SKILLS**

- Tools and techniques: Matlab, Maple, Microsoft Office, Microsoft Visio and Aspen Plus
- Languages: (Serbian) Dutch, English
- Characterization techniques: GPC, SEM, TEM, N<sub>2</sub>-physisorption, TGA and XRD

**OTHER INTERESTS**

- Playing football, chess and fishing, reading and travelling

**REFERENCES**

- Jorge Gomez, Professor of Catalytic Engineering  
jorge.gomez@leiden.nl



**EXPERIENCE**

TU Delft, The Netherlands Feb 2018 – Jan 2020  
Professional Doctorate In Engineering Trainee in Chemical Product Design  
Thesis in conceptual design of plastic products, while considering sustainability and socio-economic feasibility in an efficient design methodology

Individual Design Project @ Shell Technology Center, Amsterdam Feb 2018 – Jan 2020  
Master Thesis: "Design of ammonia-fueled methanol-based solvent for post-combustion CO<sub>2</sub> capture"

- Conceptual capacity to translate customer needs into product specifications
- Planned and managed lab experiments to validate product concepts
- Developed competence in gathering feedback to draw conclusions on laboratory results
- Applied principles of project management to deliver results within scope and on time
- Employed skills in techno-economic evaluation to make recommendations to improve commercial feasibility of solvent

Group Design Project @ Redding S.V., Vledder Aug 2018 – Jan 2019  
Master Thesis: "Design of innovative Magnesium Product for FoodHealth Application"

- General experience in the process of food/health product innovation and design reactor processes
- Acquired knowledge in the economic evaluation of health food products and marketing strategies

Master Thesis: "Flavor and drug development, pharmaceutical, powder and bulk engineering, molecular biology, medical pharmacy"

THE PETROLEUM INSTITUTE, United Arab Emirates August 2014 – May 2017  
Graduate Research Assistant  
Master Thesis Title: "Synthesis, evaluation and re-precipitation of Waste Plastics" (Project in partnership with Dordrecht, Abu Dhabi)

- Developed capacity in design of experiment by setting up a small-scale process for environmental testing of plastic waste
- Developed proficiency in handling and operating analytical lab equipment
- Utilized principles of industrial data analysis to determine key factors that improve the efficiency of separation of recycled waste

Master Thesis: "Polymer Science analysis of chemical, organic chemistry"

Master Thesis: "Evaluation of Gasification of Waste Plastics with CO<sub>2</sub> and Steam" (Project in partnership with Dordrecht, Abu Dhabi)

- Developed proficiency in laboratory setting and troubleshooting of Aspen Plus simulation
- Developed ability to interpret results to determine applications for varying compositions of simulated syngas

Master Thesis: "Reaction kinetics, thermodynamics, chemical process engineering"

Graduate Teaching Assistant August 2016 – May 2017

- Developed organization, communication and presentation skills by conducting tutorials for undergraduate students
- Assisted with other courses related with such as conducting examinations and grading assignments for a combined period of 12 months

Master Thesis: Fundamentals/principles of chemical engineering

UNIVERSITY OF PADERBORN, Germany March 2014 – September 2014  
Student Research Assistant  
Master Thesis Title: "Synthesis and Characterization of Activated Carbons on HCO<sub>2</sub> Salt"

- Developed laboratory skills to setup experiments to synthesize nanomaterial coated surfaces for carbon production
- Developed ability to independently evaluate analytical results to study improvement in electrochemical properties of synthesized material against carbon production

Master Thesis: Voltammetry measurement, non-catalytic synthesis, electrocatalysis

**EDUCATION**

TU Delft, Delft  
Professional Doctorate in Engineering  
Chemical Product Design  
2018-2020

ROYALITA UNIVERSITY, Abu Dhabi  
Master's in Chemical Engineering  
2015 - 2017  
Cum. GPA: 3.5/4

AMRITA UNIVERSITY, Coimbatore  
Bachelor's in Chemical Engineering  
2009 - 2014  
Cum. GPA: 8.15/10

**PUBLICATIONS**

Khanan et al., (2017), Polymer Secondary Oxidation through Selective Oxidation of Co-impregnated Pseudo-Consumer Waste Plastics: Progress in Rubber, Plastics and Recycling Technology  
Khanan et al., (2017), Equilibrium model analysis of waste plastic production using CO<sub>2</sub> and steam. Waste Management Research

**SKILLS**

Software	Laboratory	Languages
MS Office	FTIR	Malay - Malaysian
MATLAB	TGA/DSC	Dutch - English, Hindi
Aspen HYSYS, Plus	XPS/ ESD	Serbian- Arabic, German
Proteas	GPC-MS/GC-MS	
	EDC/Ag Nanomaterial	

**OTHER**

Non - Academic Positions  
Delft Technical Design Employees Association (Sept 2018-Feb 2019)

- Treasurer
- Head of Newsletter Committee

Projects

- Initiated and conducted a tree plantation awareness campaign at a South-Indian village, Ettimadai (Tamil Nadu) by designing educational pamphlets, distributing seedlings, conducting surveys and interviews among villagers as part of a video documentary. The project was done in partnership with the other fellow students (21 months in 2013)
- Worked one hour per week (2012-2013) on a project to develop the technology for manufacturing low cost and biodegradable sanitary napkins made from banana fiber. This project was part of a women's empowerment initiative at Amrita University

Personal interests  
Enjoy cooking different cuisines  
Trained in contemporary Indian dance  
Spends spare time with creative writing and reading fiction




## ABOUT ME

As an engineer I am trained to solve complex problems and make rational decisions using a structured approach. My passion lies in creative design and application of multidisciplinary knowledge through teamwork. I highly value contribution to, and connecting with a diverse team to find efficient and sustainable solutions. Therefore I seek an ambitious and inspiring team rather than a favourable contract.

## EDUCATION

- 2019 MSc Chemical Engineering**  
Track: Process Engineering  
Consultancy project: ConXys cable ejection (9/10)  
Thesis: 'Upscaling L-lactio acid fermentation'  

- 2014 BSc Molecular Science & Technology**  
Major: Technology  
Minor: Mathematical Finance (7/10)  
Thesis: 'Direct precipitation MOF synthesis and material characterization of NH2-MIL53(Al)' (8/10)  
  

- 2007 VWO TTO**  
Nature & Technology, Nature & Health  
IB English, Higher Level (5/6)  


## SKILLS



- Creativity
- Interpersonal
- Team management
- Numerical modeling

## EXPERIENCE

- ING Sustainable Investments | Intern**  
03/2019 - 09/2019  
Involved in all aspects of the investment process reporting directly to the Head of ING Sustainable Investments
- Various side jobs**  
2013 - 2019  
Axe Throwing Coach (Urban Axe Throwing)  
Service employee (Pathé theatres)  
Chauffeur/courier (Netzodruk)
- Erudio Study-support | Tutor**  
2013 - 2019  
Teaching high school students

# Quentin van Driel

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2013 - 2019  
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## Voluntary activities

- Stichting MAND**  
Volunteer "Samen Voor Samen" project
- KSV Sanctus Virgilius**  
Student association  
2000+ students  
Treasurer of the Lustrumweek committee (FT)  
Various small committees
- Technologisch Gezelschap**  
Daily association  
President of the Publications and Yearbook committee  
Lecture Response committee
- De Delftse Bedrijvendagen**  
Career event  
3000+ applicants  
Secretary of the Company Information Team
- SVHC Dopie**  
Hockey club  
14<sup>th</sup> Lustrum committee  
Acquisition for Spring Hockey tournament  
Volunteer at Rabobank Hockey Worldcup The Hague



## BIO

Date of birth  
17 May 1995  
Nationality  
Dutch  
Birth location  
Gorinchem, NL

Hobby's  
Field hockey, cycling,  
snowboarding, and cooking

Languages  
+ + + + + Dutch  
+ + + + + English  
+ + + + + German

## CONTACT

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3024AD Rotterdam

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qvandriel@gmail.com

Slype  
qvandriel

Phone number  
+31 (0)6 18027897

LinkedIn  
linkedin.com/in/qvandriel

# Internship allowance, yes or no?

- Most of the time, but not always
- Between 300-800 euros per month
- Ask for travel allowance



Sometimes things are arranged differently , like for a internship abroad (health insurance and some additional insurance, partly supplied by the TU).

Check if your student health insurance is good enough when working on site or at a company building fascility.



When you have questions,  
When you cannot find an internship  
When you want to do an internship abroad,  
When you have problems finding a TU supervisor  
When you do not know what to chose

When you cannot.....whatever,



Come to me:  
Gabrie Meesters, PPE, Room F2.430 or  
email me [g.m.h.meesters@tudelft.nl](mailto:g.m.h.meesters@tudelft.nl)

