<table>
<thead>
<tr>
<th>Section</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Portrait</td>
<td>4</td>
</tr>
<tr>
<td>Delft University of Technology at a Glance</td>
<td>6</td>
</tr>
<tr>
<td>Education and Students</td>
<td>8</td>
</tr>
<tr>
<td>Online Education</td>
<td>10</td>
</tr>
<tr>
<td>Scientific Focus</td>
<td>14</td>
</tr>
<tr>
<td>Delft Research-based Initiatives</td>
<td>18</td>
</tr>
<tr>
<td>TU Delft Institutes</td>
<td>20</td>
</tr>
<tr>
<td>Technology Transfer</td>
<td>22</td>
</tr>
<tr>
<td>TU Delft Alumni</td>
<td>26</td>
</tr>
<tr>
<td>Global Engagement &amp; Partnerships</td>
<td>28</td>
</tr>
<tr>
<td>Campus &amp; Facilities</td>
<td>30</td>
</tr>
<tr>
<td>Research Facilities</td>
<td>32</td>
</tr>
<tr>
<td>History of the University</td>
<td>36</td>
</tr>
<tr>
<td>Rankings</td>
<td>38</td>
</tr>
<tr>
<td>The City of Delft</td>
<td>40</td>
</tr>
</tbody>
</table>
TU Delft is the largest technical university in the Netherlands and covers practically the entire spectrum of engineering sciences.

An important characteristic of TU Delft is that we not only strive to be good at what we do but also that we want to be good for something. At Delft University of Technology, we aim for a balance between pursuing world-class academic excellence, providing high quality education and developing expert solutions for societal challenges. Also key at TU Delft is the integration of research, education and innovation. Technical-scientific knowledge is a breeding ground for our education and innovation. Conversely, the interaction with students, companies and societal partners leads to new and unexpected research questions. Research, education and innovation inspire each other.

**Vision**

Delft University of Technology contributes to solving global challenges by educating new generations of socially responsible engineers and expanding the frontiers of the engineering sciences.

**Mission**

- We perform world-class research by combining science, engineering and design in a socially responsible manner. Thus, we advance and share the benefits of technology.
- We develop and enhance the expertise of tomorrow’s engineering leaders and educate professional, high-level and responsible engineers throughout their careers.
- We help to develop and deliver technology-driven, innovative solutions to societal problems through collaborations with leading national and international partners whilst being firmly rooted in Delft.
- We continuously improve our collective effectiveness, performance and organisational resilience through the principles and practice of professionalism, collaboration and openness.

**Values**

- Diversity
- Integrity
- Respect
- Engagement
- Courage
- Trust
Delft University of Technology at a Glance
### Faculties
- Aerospace Engineering (AE)
- Applied Sciences (AS)
- Architecture and the Built Environment (ABE)
- Civil Engineering and Geosciences (CEG)
- Electrical Engineering, Mathematics and Computer Science (EEMCS)
- Industrial Design Engineering (IDE)
- Mechanical, Maritime and Materials Engineering (3mE)
- Technology, Policy and Management (TPM)

### Education
<table>
<thead>
<tr>
<th></th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelorprogrammes</td>
<td>16</td>
</tr>
<tr>
<td>Masterprogrammes</td>
<td>32</td>
</tr>
<tr>
<td>Student population</td>
<td>23,461</td>
</tr>
<tr>
<td>PhD students</td>
<td>2,799</td>
</tr>
<tr>
<td>First year students</td>
<td>5,519</td>
</tr>
<tr>
<td>Master degrees (2016)</td>
<td>3,137</td>
</tr>
</tbody>
</table>

### Research
<table>
<thead>
<tr>
<th></th>
<th>#</th>
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</thead>
<tbody>
<tr>
<td>Professors (fte)</td>
<td>253</td>
</tr>
<tr>
<td>Publications (scientific &amp; professional)</td>
<td>6,317</td>
</tr>
<tr>
<td>Promotions</td>
<td>359</td>
</tr>
</tbody>
</table>

### Valorisation
<table>
<thead>
<tr>
<th></th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Techno startups</td>
<td>23</td>
</tr>
<tr>
<td>Patents in Portfolio</td>
<td>215</td>
</tr>
</tbody>
</table>

### Personnel *
<table>
<thead>
<tr>
<th></th>
<th>fte</th>
<th>headcount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific staff</td>
<td>3,063</td>
<td>3,448</td>
</tr>
<tr>
<td>Professional services</td>
<td>2,087</td>
<td>2,385</td>
</tr>
</tbody>
</table>

### Diversity *
<table>
<thead>
<tr>
<th></th>
<th>fte/#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>International scientific staff fte</td>
<td>1,653</td>
<td>54%</td>
</tr>
<tr>
<td>Female scientific staff fte</td>
<td>772</td>
<td>25%</td>
</tr>
<tr>
<td>International full professors fte</td>
<td>64</td>
<td>25%</td>
</tr>
<tr>
<td>Female full professors fte</td>
<td>36</td>
<td>14%</td>
</tr>
<tr>
<td>International students #</td>
<td>4,633</td>
<td>20%</td>
</tr>
<tr>
<td>Female students #</td>
<td>6,389</td>
<td>27%</td>
</tr>
</tbody>
</table>

### Finances
<table>
<thead>
<tr>
<th></th>
<th>M €</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity</td>
<td>383.1</td>
</tr>
<tr>
<td>First income stream</td>
<td>438</td>
</tr>
<tr>
<td>Second income stream</td>
<td>45.5</td>
</tr>
<tr>
<td>Third income stream</td>
<td>139.2</td>
</tr>
</tbody>
</table>

(Figures are based on 2017)
www.tudelft.nl/factsandfigures

* Scientific staff includes 1179 employed PhD students (1158 fte). The percentages are calculated over total number of scientific staff, full professors and students, respectively.
Education and Students

- TU Delft has a portfolio of 16 BSc programmes (including four joint degrees), which cover the broad range of engineering disciplines.
- The University offers more than 30 MSc programmes, several of which are unique in the Netherlands.
- Some of these degree programmes are offered in conjunction with other higher education institutions, under the auspices of either the 4TU Federation (the collaborative venture of the four Dutch universities of technology) or our alliance with Leiden University and Erasmus University Rotterdam (LDE).
- Our MSc programmes are taught in English, as are our Applied Earth Sciences, Aerospace Engineering, Computer Science and Engineering and Nanobiology BSc programmes.
- TU Delft encourages ambitious students to participate in the Honours Programme Bachelor or Master: an extra-curricular programme designed to enrich the overall study experience.
Bachelor’s
• Aerospace Engineering
• Applied Earth Sciences
• Applied Mathematics
• Applied Physics
• Architecture, Urbanism & Building Sciences
• Civil Engineering
• Clinical Technology (joint degree)
• Computer Science and Engineering

Master’s
• Aerospace Engineering
• Applied Earth Sciences
• Applied Mathematics
• Applied Physics
• Architecture, Urbanism & Building Sciences
• Biomedical Engineering
• Chemical Engineering
• Civil Engineering
• Complex Systems Engineering and Management
• Computer Engineering
• Computer Science
• Construction Management and Engineering
• Design for Interaction
• Electrical Engineering
• Embedded Systems
• Engineering and Policy Analysis
• Geomatics

• Electrical Engineering
• Industrial Design
• Life Science and Technology (joint degree)
• Marine Technology
• Mechanical Engineering
• Molecular Science and Technology (joint degree)
• Nanobiology (joint degree)
• Systems Engineering, Policy Analysis & Management

Postgraduate Programmes
• Designer in Bioprocess Engineering (PDEng, Professional Doctorate in Engineering)
• Chemical Product Design (PDEng)
• Civil and Environmental Engineering (PDEng)

• Industrial Ecology (joint degree)
• Integrated Product Design
• Life Science and Technology
• Management of Technology
• Marine Technology
• Materials Science and Engineering
• Mechanical Engineering
• Metropolitan Analysis, Design and Engineering (joint degree)
• Nanobiology (joint degree)
• Offshore and Dredging Engineering
• Science Education and Communication
• Strategic Product Design
• Sustainable Energy Technology
• Systems and Control
• Technical Medicine (joint degree)
• Transport Infrastructure and Logistics

• European Post-master in Urbanism
• Process and Equipment Design (PDEng)
• The Berlage Post-master in Architecture and Urban Design
Online Education
Professional Education Courses

• Adaptive planning for infrastructure and Water Management
• Advanced Credit Risk Management
• Aeroacoustics: Noise Reduction Strategies for Mechanical Systems
• Aerobic granular sludge for wastewater treatment - Nereda
• Air Safety Investigation
• Aircraft Performance
• Assessing and Managing Safety Culture
• Cultural-sensitive Design
• Design for Values
• Design Leadership and Innovation
• Design your Next Career Move
• Digital Manufacturing for Industrial Design
• Economics of Cyber Security
• Energy Friendly Renovation Processes
• Fiber Reinforced Polymer Composites in Structural Engineering Applications
• High-rate Anaerobic Wastewater Treatment
• Implementing Customer Insights into your Business
• Improving Road Safety
• Multi-stakeholder strategies: analysis for winning coalitions
• Nano filtration and Reverse Osmosis in Water Treatment
• New Product Marketing: how to commercialize innovation
• Offshore Wind Farm Technology
• Open Data Governance and Use
• Professional Ethics for Engineers
• Railway Engineering: Track and Train Interaction
• Smart Structures
• Strategic Leadership for Responsible Innovation
• Text Mining and Analytics
• Thing-centered design: a New approach to designing for the IoT
• Vision in Design

Online Courses

• Advanced Dynamics
• Aeroelasticity
• Airborne Wind Energy
• Design of Lightweight Structures
• Fatigue of Structures & Materials
• Helicopter Performance, Stability and Control
• Introduction to Wind Turbines
• Linear Modelling (including FEM)
• Modeling, Simulation and Application of Power and Propulsion Systems
• Non-linear modelling
• Rotor and Wake Aerodynamics
• Satellite Orbit Determination
• Spacecraft Technology

Programmes for Professionals

• Solar Energy Engineering
• Electric Cars
• Data Analysis
• Project Management for Engineers
• Design & Health
• Leadership Essentials for Engineers
• Water
• Business Model Innovation
MOOCs in 2018
Scientific Focus
Architecture and the Built Environment

• Architecture
• Architectural Engineering + Technology
• Management in the Built Environment
• OTB Research for the Built Environment
• Urbanism

Civil Engineering and Geosciences

- Engineering Structures •
- Geoscience & Engineering •
- Geoscience & Remote Sensing •
- Hydraulic Engineering •
- Material, Mechanics, Management & Design •
- Transport & Planning •
- Water Management •

Industrial Design Engineering

• Design Engineering •
• Industrial Design •
• Product Innovation Management •

Technology, Policy and Management

- Engineering Systems & Services •
- Multi Actor Systems •
- Values, Technology & Innovation •
Aerospace Engineering

- Aerodynamics, Flight Performance and Propulsion & Wind Energy
- Aerospace Structures & Materials
- Control & Operations
- Space Engineering

Applied Sciences

- Bionanoscience
- Biotechnology
- Chemical Engineering
- Imaging Physics
- Quantum Nanoscience
- Radiation Science & Technology

Mechanical, Maritime and Materials Engineering

- Biomechanical Engineering
- Cognitive Robotics
- Maritime & Transport Technology
- Materials Science & Engineering
- Precision & Micro-systems Engineering
- Process & Energy
- Systems & Control

Electrical Engineering, Mathematics and Computer Science

- Applied Mathematics
- Electrical Sustainable Energy
- Intelligent Systems
- Microelectronics
- Quantum & Computer Engineering
- Software Technology
QuTech
QuTech is the Delft advanced research center for quantum computing and quantum internet, founded by TU Delft and TNO. QuTech is at the forefront of research and development in quantum technology and addresses scientific challenges as well as engineering challenges. (Inter)national physicists, computer scientists, research scientists and engineers of TU Delft and TNO closely work together with scientific and industrial partners to realize the QuTech mission: to build the first scalable quantum computer prototype and a secure quantum internet.
Delft Research-based Initiatives
The purpose of the TU Delft Research-based Initiatives (DRI’s), established in 2009, is to contribute to solving societal challenges within four themes: Health, Energy, Global Development, and Deltas, Infrastructures & Mobility. The Initiatives engage with societal and industrial partners, and highlight innovative science, engineering and design. In addition to stimulating multidisciplinary research that is in line with (inter)national agendas, the initiatives also have a strong inspirational effect on students and education.

### Delft Research-based Initiatives

<table>
<thead>
<tr>
<th>Energy</th>
<th>Deltas, Infrastructures &amp; Mobility</th>
<th>Health</th>
<th>Global</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy innovation for sustainable energy provision</td>
<td>Vital Infrastructures for Water Safety and Smart Mobility</td>
<td>Technological research for medical and health care innovations</td>
<td>Science and Technology for Global Development</td>
</tr>
<tr>
<td>Wind and solar energy</td>
<td>Urban infrastructures Airport of the future Urbanising Delta’s</td>
<td>Medical imaging &amp; Image guided medicine Interventions &amp; Care Targeted molecular technology Vitality</td>
<td>Water Urbanisation Healthcare Energy Disaster resilience and response</td>
</tr>
</tbody>
</table>
Within TU Delft, high-quality research capacity is clustered - either physically or virtually - into several University-wide institutes: the TU Delft Institutes. This organisational structure helps to strengthen the scientific focus and to enlarge the critical mass. In this way TU Delft aims to enhance its external profile with a view to better positioning itself to join national and international consortia and networks, and to become more attractive to top scientific talent.

In the course of 2018, one new Institute is expected to kick-off: ‘PowerWeb’. This Institute, supported by the faculties of 3mE, EEMCS, IDE and TPM will be working towards intelligent, integrated energy solutions.
<table>
<thead>
<tr>
<th>Name Institute</th>
<th>Focus</th>
<th>Start</th>
<th>Faculties</th>
</tr>
</thead>
</table>
| Bioengineering                                   | • Biomass based products  
• Environmental bioengineering  
• Bioengineering for health | 2016  | TNW, CITG, EWI, 3mE       |
| Climate                                          | • Urban Climate  
• Ice and Sea-level Change  
• Water Cycle  
• (Engineering the) Radiation Balance | 2012  | CITG, EWI, TBM, LR, BK (TNW, 3mE) |
| Computational Science & Engineering (DSCE)       | • Dynamics  
• Structures  
• Solids  
• Socioeconomics & Life | 2016  | EWI, CITG, TNW, 3mE, LR, TBM |
| Design for Values (DDFV)                         | • Responsible innovation  
• Incorporation of values in technology by design  
• Resolving conflicts between values  
• Assessment of design for values | 2017  | TBM, BK, EWI, IO          |
| Optics Centre (DOC)                             | • Spectrometry  
• Imaging  
• Metrology | 2017  | TNW, 3mE, LR (partner: TNO) |
| Process Technology (DPTI)                       | • Biochemical process engineering  
• Process intensification  
• Process technology for advanced materials | 2012  | TNW, 3mE                   |
| Robotics                                         | • Swarm robotics  
• Robots that work  
• Interactive robots | 2012  | TBM, LR, IO, EWI, 3mE, BK  |
| Safety & Security (DSyS)                        | • Occupational- and structural safety  
• Crisis management after safety and security incidents  
• Physical- and cyber security  
• Situational awareness for safety and security | 2013  | EWI, CITG, TNW, BK, TBM, 3mE, LR |
| Space (DSI)                                      | • Sensing from space  
• Space robotics  
• Distributed space systems | 2015  | LR, TNW, EWI, CITG, 3mE   |
| Sports Engineering                               | • Aero- and hydrodynamics  
• Biomechanics, materials and human / material interaction  
• Measurement, feedback and simulation  
• Motivation  
• Sports infrastructures and facilities | 2014  | 3mE, IO, LR, EWI, BK      |
| Transport                                        | • Coordinated, cooperative and automated transport  
• Urban mobility & active modes  
• Transport policy & behaviour  
• Logistics & freight transport  
• Railways | 2012  | CITG, EWI, TBM, 3mE       |
| Wind Energy (DUWIND)                            | • Social responsible innovation  
• System integration  
• Wind farm design and asset management  
• Wind turbine design  
• Airborne Wind Energy | 2012  | LR, CITG, EWI, 3mE, TBM, TNW |
Valorisation concerns the creation of social and economic value based on scientific knowledge and skills. The TU Delft Valorisation Centre stimulates and facilitates technology transfer and provides the necessary support for TU Delft scientists and support staff. This includes supporting researchers in attracting funding for research projects, setting-up innovative R&D initiatives and coordinating these large-scale programmes and projects, the management and commercialization of intellectual property, business development and establishing and maintaining long-term relationships with commercial partners.

Ranking Reuters Top 100: The World’s Most Innovative Universities TU Delft jumped to the 12th position in 2018, from the 56th place in 2017. The ranking is mainly based on indicators tied to patents.
**National grant agreements**

In 2017 TU Delft scored well within the NWO (Netherlands Organization for Scientific Research) grants. The Public Private Partnership Allowance of the Ministry of Economic Affairs is also an increasingly important source of funding for TU Delft.

**NWO Innovational Research Incentives Scheme**

<table>
<thead>
<tr>
<th>Scheme</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veni</td>
<td>5</td>
</tr>
<tr>
<td>Vidi</td>
<td>8</td>
</tr>
<tr>
<td>Vici</td>
<td>1</td>
</tr>
</tbody>
</table>

**NWO Rubicon Grants**

<table>
<thead>
<tr>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

**NWO Gravitation Programme**

<table>
<thead>
<tr>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

**NWO Perspective programs**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>3</td>
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</tbody>
</table>

**NWO Take Off**

<table>
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<tr>
<th>Phase</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>I</td>
<td>19</td>
</tr>
<tr>
<td>II</td>
<td>11</td>
</tr>
</tbody>
</table>

**NWO Open Technology Programme (OTP)**

<table>
<thead>
<tr>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>7</td>
</tr>
</tbody>
</table>

**EU Personal grants 2017**

<table>
<thead>
<tr>
<th>Grant Type</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>ERC Advanced grant</td>
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</tr>
<tr>
<td>ERC Consolidator grant</td>
<td>1</td>
</tr>
<tr>
<td>ERC Starting grant</td>
<td>4</td>
</tr>
</tbody>
</table>

**European grant agreements**

An internal evaluation has shown that TU Delft scores very well on obtaining EU funding in the field of Excellent Science, such as funding from the European Research Council (ERC) and Marie Skłodowska Curie Actions (MSCA).

Moreover, TU Delft has often won the coordination of project consortia. Among other things TU Delft coordinates the large-scale EU projects ROSIN and TWIGA. As far as obtaining EU funding is concerned, TU Delft is in the top 10 in the EU and number 1 in the Netherlands.

**Top 10 universities in Horizon 2020**

1. University of Oxford
2. University of Cambridge
3. University College London
4. Imperial College London
5. University of Copenhagen
6. University of Edinburgh
7. Catholic University of Leuven
8. École Polytechnique Fédérale de Lausanne
9. Delft University of Technology
10. Swiss Federal Institute of Technology Zurich

**EC Contribution**

<table>
<thead>
<tr>
<th>University</th>
<th>EC Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delft</td>
<td>€ 164 M</td>
</tr>
<tr>
<td>Swiss</td>
<td>€ 148 M</td>
</tr>
<tr>
<td>Imperial</td>
<td>€ 251 M</td>
</tr>
<tr>
<td>Oxford</td>
<td>€ 291 M</td>
</tr>
<tr>
<td>Cambridge</td>
<td>€ 261 M</td>
</tr>
<tr>
<td>London</td>
<td>€ 188 M</td>
</tr>
<tr>
<td>Copenhagen</td>
<td>€ 179 M</td>
</tr>
<tr>
<td>Edinburgh</td>
<td>€ 175 M</td>
</tr>
<tr>
<td>Leuven</td>
<td>€ 172 M</td>
</tr>
<tr>
<td>Lausanne</td>
<td>€ 170 M</td>
</tr>
<tr>
<td>Zurich</td>
<td>€ 148 M</td>
</tr>
</tbody>
</table>
**Cooperation with companies**

In 2017, a great deal of attention has been devoted to the Dutch top sector policy and the further development of partnerships with both large innovative companies and small and medium-sized enterprises (SMEs). With SMEs various collaborations have been set up at the YES!Delft incubator and at our testing grounds, RoboValley and The Green Village.

Through the TU Delft Industry Partnership Program (TIPP), if a company fully finances a PhD student, TU Delft finances a second PhD student with the use of a PPS supplement. TIPP successfully continued in 2017 and has led to 18 PhD projects through contracts.

**Intellectual Property 2017**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announcement new findings</td>
<td>103</td>
</tr>
<tr>
<td>New submitted patents</td>
<td>52</td>
</tr>
<tr>
<td>Contracts closed</td>
<td>19</td>
</tr>
<tr>
<td>Patents commercialised</td>
<td>24</td>
</tr>
<tr>
<td>Total patents in portfolio</td>
<td>215</td>
</tr>
</tbody>
</table>

**Entrepreneurship**

Delft University of Technology has always been an entrepreneurial university. Over the last 175 years, many inventions and ground-breaking research found their way from the laboratory to society. Large corporations start small, originated from a student or researcher, and Delft University of Technology takes pride in the number of spin-outs that originate here.

**Delft Enterprises**

Delft Enterprises B.V. participates in innovative, early stage and technology-based spin-off companies of TU Delft. The aim to empower and speed up the development of these startups, as part of the ambition of the University to turn scientific knowledge into economic value.

**Delft Enterprises 2017**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>New spin-offs in portfolio</td>
<td>12</td>
</tr>
<tr>
<td>Exits</td>
<td>1</td>
</tr>
<tr>
<td>Total spin-offs in DE portfolio</td>
<td>57</td>
</tr>
<tr>
<td>Total funding raised by portfolio companies</td>
<td>&gt;100,000,000</td>
</tr>
</tbody>
</table>
How the Nuon Solar Team won the World Solar Challenge with thousands of solar cars
Thanks to automation of the design process, a completely new concept of the Nuon solar car was made with the software of TU Delft spin-out company ParaPy. The software of ParaPy allows the designer to make rapid changes, in this case to the solar car, and directly see the impact. Within half a year, the team has made thousands of designs for the Nuna. By comparing all versions, ultimately a winning design was found. Because of this, Nuna was lighter, faster and more sustainable than ever before. The Nuon Solar Team of Delft University of Technology won the World Solar Challenge in Australia for the seventh time.

“With this software we have saved an incredible amount of time in the design process. Never have we been able to analyze so many designs for Nuna. As such, we have been able to make a clear data-driven choice for the most optimal design”

Steven de Rooij, Technical manager of the Nuon Solar Team.
Alumni may no longer be on campus every day, but we hope and expect that the knowledge and experience they gained during their studies come in handy on a day-to-day basis, when doing what Delft engineers are good at: making a difference in the world with the help of technology. TU Delft is strengthening the relationship with its alumni, and involving them more in what is going on in the organisation. This is done under the motto “TU Delft for Life”. After all, TU Delft is more than just a university; it is a worldwide community of 100,000 alumni, 24,000 students and 6,000 employees.
**Alumnus of the Year 2018**

In 2018 a new Alumnus of the Year has been added to the Alumni Walk of Fame: Prof. Ionica Smeets, graduated in 2005 at the faculty of Electrical Engineering, Mathematics and Computer Science.

![Image of Alumnus of the Year Awards]

From left to right: Prof. Tim van der Hagen (Rector Magnificus and President of the Executive Board), Prof. Ionica Smeets (Professor of Science communication at Leiden University), Ir. Michael Wisbrun (President of the Delft University Fund)

**Alumni Worldwide**

Total number of alumni worldwide: 100,106

Based on LinkedIn July 2018

<table>
<thead>
<tr>
<th>Top 10 Countries</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Nederlands</td>
<td>77,545</td>
</tr>
<tr>
<td>USA</td>
<td>2,799</td>
</tr>
<tr>
<td>Germany</td>
<td>2,034</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1,912</td>
</tr>
<tr>
<td>Belgium</td>
<td>1,530</td>
</tr>
<tr>
<td>Spain</td>
<td>1,292</td>
</tr>
<tr>
<td>Italy</td>
<td>1,161</td>
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<tr>
<td>France</td>
<td>982</td>
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<td>Switzerland</td>
<td>923</td>
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<td>Australia</td>
<td>797</td>
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<table>
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<tr>
<th>Top 10 Employers</th>
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<tbody>
<tr>
<td>Shell</td>
<td>1,085</td>
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<tr>
<td>ASML</td>
<td>687</td>
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<tr>
<td>Rijkswaterstaat</td>
<td>656</td>
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<tr>
<td>TNO</td>
<td>605</td>
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<td>Royal Haskoning DHV</td>
<td>574</td>
</tr>
<tr>
<td>Philips</td>
<td>505</td>
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<tr>
<td>KPN</td>
<td>319</td>
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<tr>
<td>Arcadis</td>
<td>281</td>
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<tr>
<td>Deltares</td>
<td>272</td>
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<tr>
<td>Heerema Marine Contractors</td>
<td>201</td>
</tr>
</tbody>
</table>

For more information, please visit [www.alumni.tudelft.nl](http://www.alumni.tudelft.nl).
Global Engagement & Partnerships

Strategic network membership in the Netherlands and Europe

**4TU:** Eindhoven University of Technology, Twente University, Wageningen University, TU Delft
**LDE:** Leiden University, TU Delft, Erasmus University Rotterdam
**CESAER:** 51 Universities of Technology in Europe
**IDEA LEAGUE:** ETH Zurich, RWTH Aachen, Chalmers University of Technology, Polytechnic Milan, TU Delft
**EUA:** European Universities Association

MoU signing ceremony Professor Dr Jenny Dankelman (3ME) and partner All India Institute of Medical Sciences (AIIMS) in the presence of Prime Minister Rutte, Delhi, May 2018
Partnerships are crucial for the TU Delft to be able to find innovative solutions creating impact for tackling today’s global challenges and sustainable development goals (SDG) in both the regional and international context. The TU Delft’s partnership portfolio includes worldwide academic and research institutions as well as builds on an extensive network with (semi) government, NGO, health sector and business partners. With a participation in these selective global alliances and networks the TU Delft will continue to pro-actively seek a position to influence and assure its visibility as an academic institution in both local and global ecosystems of broad stakeholders with a shared focus and aim to create Global Impact.

The basis of research and education partnerships originates from carefully established ‘bottom-up’ faculty relations: personal contact in researcher-to-researcher networks where curiosity and focus brings together academics on matching expertise creating synergy. Some of these TU Delft’s short and long term academic collaborations have grown into a number of exclusive joint theme-based research-programme initiatives in both Europe and beyond.

To actively further support academics in strengthening and broadening their collaborations into long-term relations as well as to encourage explicit focus on the importance of the university’s position in the world, the TU Delft is embarking on a more focused Global Engagement and Partnership approach. Between 2018-2024 the TU Delft aims to strengthen its relations with a select number of worldwide strategic university partners. In addition, the TU Delft will position focused research fields for scientific collaboration with partners in Brazil, China and India. While through the Delft Global Initiative the university wishes to boost science and technology for global development and impact in Sub Saharan Africa and South-East Asia.

Finally in order to increase the TU Delft impact on the global education market the university will strengthen its thematic online education while collaborating with front runners in innovative education as well as start offering a relevant portfolio for working professionals and lifelong learners in a global environment.

Global Engagement

‘Look and Learn training’, Theme Weather and Agriculture, IPRC Musanze, Rwanda. April 2018
Campus & Facilities
An inspiring campus
TU Delft is an attractive ‘living campus’ with excellent facilities for education, research and innovation. It’s an inviting campus where people feel inspired to work and to be creative; an environment also that contributes to the community feeling. We continue renewing the campus to provide the best facilities at all times. We want to do this in a responsible manner and are firmly committed to the principles of sustainability.

Research Infrastructure
To attract outstanding scientific talent, conduct ground-breaking research and train new generations of engineers, TU Delft heavily relies upon excellent research facilities. We use our campus as a living lab which makes it possible for us and our research partners (for example TNO, Deltares and Microsoft) to test the real-life practicality of models simulated on computers. Something no other Dutch university can do on such a large scale. This is a defining element of TU Delft’s profile within the international research landscape.
Research Facilities
Aerospace Engineering
- Aeroplane Hangar
- Cessna Citation II Jet Aircraft
- Cleanroom for Satellite Building
- Flight Arena ‘Cyberzoo’
- Flight Simulator Simona
- Kite Laboratory
- Micro Air Vehicle Laboratory
- Propulsion Lab
- Structures & Materials Lab
- Wind Tunnels (Low and High Speed Tunnels)

Applied Sciences
- Chemical Labs
- Fermentation Labs
- Molecular biology Labs
- Bioprocess Pilot Facility
- Imaging Facility
- Advanced Imaging Labs
- Laser Labs
- Cleanrooms
- Nuclear Research Reactor, incl. Neutron and Positron Beam-line Instruments and Irradiation Facilities

Architecture and the Built Environment
- Architecture Model Hall
  - 3D Printers
  - 3D Lab
  - Lasercutters
  - CNC Milling Machines
  - Render Farm
  - Sense Lab
  - Product Development Lab
- Architecture Library:
  - 35,000 Books
  - 14,000 Maps
  - 550 Atlases
  - 260 Magazine Titles

Civil Engineering and Geosciences
- Cloud Lab
- Geodesy/GNSS Lab
- DiTT-Lab
- Smart Vehicle Lab
- Research Lab Automated Driving
- Drones for Traffic and Geological Research
- CT Scanner
- High Pressure & Temperature Facilities
- Geo-technical Centrifuge
- Macro Lab
- Micro Lab
- Biohazard 1 Wastewater Treatment Lab (ML1 lab)
- Water Engineering Experimental and Analytical Lab (e.g. GC, IC, HPLC, Water Isotopes)
- Flooms for Waves, Currents and Sediment Transport
- Jetski Mobile Platform for Coastal Fieldwork
<table>
<thead>
<tr>
<th>Fieldlabs</th>
<th>Valorisatieprogramme Deltatechnologie &amp; Water (VPdelta)</th>
<th>Programme that creates fieldlabs where start-ups, scale-ups, SMEs, students and scientists test, improve and demonstrate concepts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RoboHouse</td>
<td>Smart Industry Fieldlab for Advanced Cognitive Robotics Applications</td>
</tr>
<tr>
<td></td>
<td>Proeftuin op de Noordzee</td>
<td>Offshore test site for the maritime sector</td>
</tr>
<tr>
<td></td>
<td>Fieldlab Unmanned Valley Valkenburg</td>
<td>Test Center for Unmanned Innovation</td>
</tr>
<tr>
<td></td>
<td>SAM</td>
<td>XL - Composite Automation Development Centre (CADC)</td>
</tr>
<tr>
<td>Living Labs</td>
<td>Medical Delta Living Labs</td>
<td>Real-life experimental environments for the health care sector</td>
</tr>
<tr>
<td></td>
<td>Amsterdam Institute for Advanced Metropolitan Solutions (AMS institute)</td>
<td>Institute that uses the city of Amsterdam as a living lab for integrated metropolitan solutions</td>
</tr>
<tr>
<td></td>
<td>The Green Village</td>
<td>Living Lab for the acceleration of sustainable innovations</td>
</tr>
</tbody>
</table>

* TU Delft Research Labs not included
Industrial Design Engineering
- Applied Labs
- Aviation
- Connected Everyday Lab
- Emerging Materials Lab
- Foundational Labs
- ID-StudioLab
- Model making and Machine Lab
- Perceptual Intelligence Lab
- Physical and Ergonomics Lab
- Product Evaluation Lab

Mechanical, Maritime and Material Engineering
- Cleanroom for Micro/Nano Engineering Lab
- Driving and Racing Simulator Labs
- Fluid Mechanics Lab
- Graphene and Thin Film Deposition Lab
- Materials Lab
- Mechatronics Lab
- Perfect Reactors Lab
- Process Technology Lab
- Robotics Lab
- Flume Tank and 2 Towing Tanks
- Delft Lab for Neuromuscular Control
- AGV-Lab
- Optics Lab
- Fuel Cell Lab
- Hexamove/-pod
- Cavitation Tunnel

Electrical Engineering, Mathematics and Computer Science
- Else Kooi Lab, Cleanroom for Microsystems
- Electrical Sustainable Power Lab
- INSYGHTLab for Computer Vision, Interactive Intelligence and Visualisation
- Radar Labs with PARSAX and MECEWI Radars and the Radar Facilities TARA and IDRA
- DUCAT Antenna Measurement Chamber
- Photovoltaics Laboratory
- Tellegen Hall

Technology, Policy and Management
- Policy Analysis Simulation Lab
- Serious Game

More information can be found at: labs.tudelft.nl
History of the University

Royal Academy
On 8 January 1842, King Willem II founded the ‘Royal Academy for the education of civilian engineers, to serve both nation and industry, and of apprentices for trade’. The academy also educated civil servants for the colonies and revenue officers for the Dutch East Indies.

Polytechnic School
An Act was passed on 2 May 1863 imposing regulations on technical education as well as bringing it under the influence of the rules applying to secondary education. Then, on 20 June 1864, a Royal Decree was issued ordering the Royal Academy in Delft to be disbanded to make way for a new ‘Polytechnic School’. The school went on to educate architects and engineers in the fields of civil engineering, ship-building, mechanical engineering and mining.
Institute of Technology
On 22 May 1905, an Act was passed acknowledging the academic level of the Polytechnic School’s technical education and it became a Technische Hogeschool, or Institute of Technology. Queen Wilhelmina attended the Institute’s official opening ceremony on 10 July 1905. The Institute’s first Rector Magnificus was the Professor of Hydraulic Engineering ir. J. Kraus. The Institute was granted corporate rights by an Act passed on 7 June 1956.

1905-1986

Delft University of Technology
An Act which took effect on 1 September 1986 officially transformed the Institute of Technology into Delft University of Technology, abbreviated to TU Delft from the Dutch name Technische Universiteit Delft.
Position TU Delft in World University Rankings

Trends in QS, THE and ARWU:
Engineering & Technology and World University Rankings
### Position TU Delft in Subject Rankings

![TU Delft in Subject Rankings](image)

### TU Delft in various rankings

<table>
<thead>
<tr>
<th>Ranking organisation</th>
<th>Edition</th>
<th>Focus</th>
<th>Position</th>
<th>Performance</th>
<th>Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Times Higher Education</td>
<td>2018</td>
<td>Reputation ranking top 100</td>
<td>51-60</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>Times Higher Education</td>
<td>2018</td>
<td>Most international universities in the world top 200</td>
<td>18</td>
<td>13</td>
<td>1</td>
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<tr>
<td>Times Higher Education</td>
<td>2017</td>
<td>Global University Employability Ranking</td>
<td>69</td>
<td>28</td>
<td>1</td>
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<tr>
<td>Reuters</td>
<td>2018</td>
<td>Top 100 Most Innovative Universities</td>
<td>12</td>
<td>12</td>
<td>1</td>
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<tr>
<td>QS</td>
<td>2019</td>
<td>Graduate Employability Ranking</td>
<td>41</td>
<td>10</td>
<td>1</td>
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<tr>
<td>CWTS Leiden Ranking</td>
<td>2018</td>
<td>Industry collaboration</td>
<td>19</td>
<td>11</td>
<td>2</td>
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<tr>
<td>CWTS Leiden Ranking</td>
<td>2018</td>
<td>PP top 1 % in All Sciences</td>
<td>34</td>
<td>11</td>
<td>1</td>
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<tr>
<td>CWTS Leiden Ranking</td>
<td>2018</td>
<td>PP top 10% in All Sciences</td>
<td>83</td>
<td>28</td>
<td>5</td>
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<tr>
<td>CWTS Leiden Ranking</td>
<td>2018</td>
<td>PP top 50% in All Sciences</td>
<td>86</td>
<td>34</td>
<td>10</td>
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<tr>
<td>Universitas Indonesia</td>
<td>2017</td>
<td>UI Green Metric</td>
<td>22</td>
<td>16</td>
<td>3</td>
</tr>
</tbody>
</table>
The City of Delft

City of Delft statistics
Square kilometres: 24
Population: 101,400
Cafés, bars and restaurants: 220
Delft is a historical city that was established in the 13th century with a rich history including the world-famous Delft Blue china, celebrated painters such as Johannes Vermeer and scientists such as the inventor of the microscope Antoni van Leeuwenhoek. Delft’s slogan is: ‘Delft, creating history’. The city of Delft is strategically located at the heart of the Dutch knowledge economy and is within easy reach of the TU Delft campus by bike or public transport. The close connection between the city and the University brings together the best of both worlds.

Over the past two decades, Delft has rapidly transformed from an industrial centre into a hub for the Dutch knowledge economy. But Delft is also constantly looking to the future to ensure the city remains vibrant and prosperous. The university and companies based in Delft play an important role in this mission. The University and the city work more and more together in order to become a strong team in the battle for brains. Internationalisation, accessibility of the campus, estate management, attractiveness for students, researchers and tech companies to come and stay in Delft as well as community engagement are on the agenda.

**Connectivity**
To Rotterdam by car: 15 km, 20 min  
To Rotterdam by train: 10 services per hour, 15 min  
To Amsterdam by car: 66 km, 44 min  
To Amsterdam by train: 4 services per hour, 58 min  
To Schiphol airport by train: 6 services per hour, 40 min

**Impact TU Delft on the City of Delft**
• 1 in 10 residents is a TU Delft student  
• 1 in 5 catering facilities in Delft would not exist without TU Delft  
• 1 in 10 retail concerns in Delft would not exist without TU Delft  
• TU Delft employs 5270 FTE directly and another 1850 FTE indirectly  
• TU Delft and its students, employees and visitors account for 15% of Delft’s employment
Colophon:

Production
TU Delft, Department Communication

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Alexandra Czarnecka
(Strategic Development, TU Delft)

Design and layout
Saskia de Been (Media Solutions, TU Delft)

Printer
Edauw & Johannissen

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