# Delft University of Technology at a glance



*f***U**Delft

## The City of Delft

**City of Delft statistics** Square kilometres: 24 Population: 101,033 Cafés, bars and restaurants: 296



Finances (2015)	In millions	Research (20 <sup>2</sup>	15)	
Equity	363,6	Professors (FT	E)	240
First income stream	411,4	Publications (scienti	fic)	5630
Second income stream	45,3	Promotic	ons	357
Third income stream	134,4	Personnel (2015)*		
Education (2015)		Scientific staff (FTE)		2697
Bachelor's programmes	16	Scientific staff (head count)		2953
Master's programmes	30	Professional services (FTE)		1987
Student population	20,980	Professional services (head count)		2272
PhD Students	2607	Diversity (2015)*	#	%
First-year students	4709	International scientific staff (FTE)	1370	51%
Master's degrees	2451	Female scientific staff (FTE)	671	25%
Valorisation (2015)		International full professors (FTE)	56	23%
Startups	28	Female full professors (FTE)	28	11%
		International students	3820	18%
		Female students	5274	25%

www.tudelft.nl/factsandfigures

\* PhD students are classified as scientific staff. The percentages are calculated over total number of scientific staff, full professors and students, respectively.





- Architecture and the Built Environment
- Civil engineering and Geosciences
- Electrical Engineering, Mathematics and Computer Science
- Industrial Design Engineering
- Aerospace Engineering
- Technology, Policy and Management
- Applied Sciences
- Mechanical, Maritime and Materials Engineering



## *f***U**Delft

#### Mechanical, Maritime and Materials Engineering

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TTT

- Biomechanical Engineering
- Systems & Control

Mechanical Maritime ar

- Maritime & Transport Technology
- Precision & Micro-systems
  Engineering
- Process & Energy
- Materials Science & Engineering

#### Precision and Microsystems Engineering

CONTINUOUS (2001)

AND DESCRIPTION OF A DE

Picture: Direct Drive Ferrofluid Stage by Max Café and Jo Spronck



Challenge the future



0.00001m







1m







Wedesign precision machines



down to the nano scale



0.01m









Structural Optimization and

Micro and Nano Engineering





Ostayen







Can





Volkert van der Wijk



Fred van

Keulen

Herder





Hans Goosen

Matthijs Langelaar



Alejandro Aragon Ayas





Luigi Ghatkesar Sasso

**Buijnsters** 

Murali

Tichem



Vacancy









Vacancy

Vacancy













Marcel



### **DMN**

SOM

**MNE** 

**Mechanics** 

Dynamics of Micro and Nano Systems

MOOM

Micro-optics and Optomechatronics





Peter









Challenge the future 11

#### economical MNE competitiveness Micro Nano Engineering advanced industrial instrumentation advancing nano production science Fluidic bio-medical Reservoir Laser Bean applications scientific instrumentation Liquid Hollow Cantileve health processing H-assembly biology Mask 40µm physics chemistry 800 30.0kV 6.0mm x900 SE(M,LA0) 9/1/2014 10:03



### PME Research Program



PME is focused on the High-Tech Systems and Materials domain, and has the mission to integrate micro/nano-science into Mechanical Engineering



#### PME Structure



<<< individual excellence & intensive collaboration >>>



#### NERI: NanoEngineering Research Initiative

- Long-term collaboration with industry and research institutes
- Joint roadmapping and strategy building
- Vision and content-driven

**Ť**UDelft

Nano-enabled and enabling nano



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