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Eindhoven University of Technology in brief

Eindhoven University of Technology (TU/e) plays a prominent role at both national and international levels through its research and educational programs in the engineering science and technology domain.

TU/e has a strong commitment to the valorization of knowledge: translating research results into successful innovations. This may for example take the form of contributions to the development of new products or processes for industry, and the setting up of new enterprises.

The university is located in Eindhoven, in South-East Brabant, a region with a strong engineering, technology and innovation profile. At this focal point of engineering and technology TU/e is a source of innovation, which is why the university proudly states “TU/e: Where innovation starts”.

TU/e has established a partnership with the Delft University of Technology and the University of Twente to create a 3TU.Federation in the Netherlands. The 3TU.Federation has set up six Centers of Excellence for which TU/e provides 31 chairs. Most of these already exist, but eight new chairs are being created at TU/e.

TU/e was founded in 1956 to give a vital boost to the economy in the South East of the Netherlands. This is still one of the primary objectives.

Within the EU, TU/e has achieved the third-best science citation impact score overall, after Cambridge and Oxford.

Departments

- Applied Physics
- Architecture, Building and Planning
- Biomedical Engineering
- Chemical Engineering and Chemistry
- Electrical Engineering
- Industrial Design
- Mathematics and Computer Science
- Mechanical Engineering
- Technology Management





Strategic research areas

Eight strategic research areas have been selected to attract research funding at national and international level, as well as top researchers and Master's students.

- Biomedical Engineering Sciences
- Broadband Telecommunication Technologies
- Catalysis and Process Engineering
- Logistics, Operations and Information Systems
- Mechanics and Control
- Nano-Engineering of Functional Materials and Devices
- Polymer Science and Technology
- Science and Engineering of Embedded Systems

New top multidisciplinary institute at TU/e:

- Institute for Complex Molecular Systems (ICMS)



Research Schools

Eindhoven University of Technology supervises two of the top six Dutch research schools:

- Inter-University Research Institute on Communication Technology Basic Research and Applications (COBRA)
- National Research School Combination Catalysis Controlled by Chemical Design (NRSC-Catalysis)

TU/e supervises five research schools recognized by the Royal Netherlands Academy of Arts and Sciences:

- Eindhoven Polymer Laboratories (EPL)
- Engineering Mechanics (EM)
- Euler Institute for Discrete Mathematics and its Applications (EIDMA)
- Institute for Business Engineering and Technology Application (BETA)
- Institute for Programming Research and Algorithmics (IPA)

Income <small>(in millions of euro)</small>	2007	2007 vs. 2003
Government income (incl. tuition and examination fees)	194.0	+ 11%
Income from contract research and research subsidies	66.6	+ 50%
Other income	15.9	+ 17%
Total	276.5	+ 19%

source TU/e

Costs <small>(in millions of euro)</small>	2007	%	2007 vs. 2003
Personnel costs	166.0	61	+ 14%
Other costs	104.9	39	+ 19%
Total	270.9		+ 16%

source TU/e

Scientific output	2007	2007 vs. 2003
Scientific publications	3292	+ 23%
Publication in Web of Science	1021	+ 12%
Patents	15	+ 150%

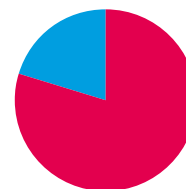
source TU/e

Scientific output 2007	TU/e	NL
Dissertations in the field of technology	176	553
Scientific publications in the field of technology	3292	12081

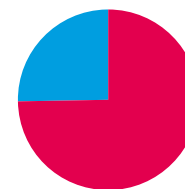
source TU/e, VSNU

Staff	2007	2007 vs. 2003
Total staff	2978	- 8%
Research staff	1776	0.0%
Full professors	116	- 0.9%
PhD fellows	651	+ 13%

source TU/e



2003

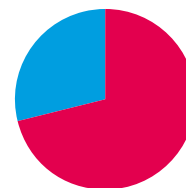


2007

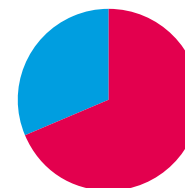
% Employees by nationality

Dutch	2003: 79.8
	2007: 74.9
Non Dutch	2003: 20.2
	2007: 25.1

source TU/e



2003



2007

% Employees by gender

Male	2003: 71.3
	2007: 68.7
Female	2003: 28.7
	2007: 31.3

source TU/e

Knowledge and technology transfer



Eindhoven University of Technology pursues optimal knowledge and technology transfer to industry and related organizations.

TU/e Innovation Lab

TU/e Innovation Lab is responsible for the process of generating and maintaining valorization. It provides industry, small businesses and academic entrepreneurs with a wide range of services, and supports them with the following:

- Account management large industry and corporate relations;
- Contract research and contract education;
- Joint research and development projects within the TU/e research fields;
- Research and development studies in the form of research or graduate traineeships;
- Design assignments such as a twelve-month practical assignment for the postgraduate design program.

TU/e Innovation Lab and Incubator3+

High-tech enterprises have easy access to TU/e researchers through seminars, expert meetings and personal contact. In turn, support is given to TU/e researchers, students and alumni in realizing their business plans for the commercial exploitation of scientific research and applications by setting up high-tech start-up ventures. For these services TU/e participates in Incubator3+, an organization to support starters which was set up with governmental and commercial partners in the Eindhoven region.

TU/e Innovation Lab and United Brains

Together with the other knowledge institutes in the Brainport Eindhoven region, TU/e offers front office access for SMEs through United Brains. United Brains is the intermediate organization for knowledge transfer to and collaboration with (high-tech) SMEs.

3TU.Innovation Lab

TU/e Innovation Lab is the Eindhoven part of 3TU.Innovation Lab, the organization in which the 3TU.Federation organizes all valorization and knowledge/technology transfer activities.

Leading Technological Institutes

Leading Technological Institutes are founded by the Dutch government to strengthen fundamental strategic research relevant to industry. At present there are five such institutes in the Netherlands, in which research groups of universities and industry work closely together. TU/e has a major role in the Dutch Polymer Institute (DPI) and participates in the Materials innovation institute (M2i).

TU/e also participates in:

- the Embedded Systems Institute (ESI)
- the Center for Translational Molecular Medicine (CTMM)
- the Holst Center
- the innovation program High Tech Systems (HTS)
- the innovation program High Tech Automotive Systems (HTAS)

The TU/e has introduced the TU/e Talent Scholarship Program. This program offers numerous scholarships to highly-talented students from foreign countries, often in combination with a 3 year work experience at a global high-tech company in the Eindhoven region.

The NWO/Spinoza Prize is an award for top researchers with international reputations. The winners each receive 1.5 million euro to spend on research. TU/e has two Spinoza laureates: prof.dr. Rutger van Santen (1997) and prof.dr. Bert Meijer (2001).

International scientific network

Foreign students	2003	2004	2005	2006	2007
Exchange students	220	308	284	387	420
Bachelor's students (BSc)	82	111	118	133	126
Master's students (MSc)	44	106	156	199	259
Total	346	525	558	719	805

Students	2007	2007 vs. 2003	female	intern.
Bachelor's students (BSc)	4688	n.a	15%	3%
Master's students (MSc)	2239	n.a	18%	12%
Total	6927	- 1.4%	16%	6%



A variety of contacts with scientists all over the world form the international network of the researchers at Eindhoven University of Technology. During the last few years special attention has been paid to collaboration within the European Union. TU/e participates in:

- CLUSTER (Consortium Linking Universities of Science and Technology for Education and Research)
- CESAER (Conference of European Schools for Advanced Engineering Education and Research)
- European Alliance in Science and Technology (Technische Universität München, Danmarks Tekniske Universitet)

TU/e has also enlarged its network in China, Asia and Europe, and has established joint programs with:

- Northeastern University in Shenyang (with Philips Medical Systems)
- Zhejiang University in Hangzhou (with Philips Research)
- National University of Singapore (with National Design Institute)
- Manipal University India



More than 95% of the first-year students participate in the TU/e notebook scheme, which provides them with a powerful notebook with installed software at a low cost.

In September 2006 the 25,000th engineer graduated at TU/e. In the same month the 50,000th student was registered at the university.

Choices and challenges in Education

Bachelor's programs (BSc)

- Applied Physics
- Architecture, Building and Planning
- Biomedical Engineering
- Chemical Engineering
- Computer Science and Engineering
- Electrical Engineering
- Industrial and Applied Mathematics
- Industrial Design
- Industrial Engineering and Management Sciences
- Innovation Sciences
- Mechanical Engineering

Special Bachelor's track

- Industrial Engineering and Management Sciences for Healthcare

Master's programs (MSc)

- Applied Physics
- Architecture, Building and Planning
- Biomedical Engineering
- Building Services
- Business Information Systems
- Chemical Engineering
- Chemistry Education
- Computer Science and Engineering
- Computer Science Education
- Construction Management and Engineering
- Electrical Engineering
- Embedded Systems
- Human-Technology Interaction
- Industrial and Applied Mathematics
- Industrial Design
- Innovation Management

- Mathematics Education
- Mechanical Engineering
- Medical Engineering
- Operations Management and Logistics
- Physics Education
- Sustainable Energy Technology
- Systems and Control
- Technology and Policy

Special Master's tracks

- Automotive Technology
- Broadband Telecommunication Technologies
- Fluid and Solid Mechanics
- Information Security Technology
- Nano-Engineering
- Polymers and Composites

Designer programs PDEng

(Professional Doctorate in Engineering, a two year postgraduate program)

- Architectural Design Management Systems
- Design and Technology of Instrumentation
- Information and Communication Technology
- Logistics Management Systems
- Mathematics for Industry
- Process and Product Design
- Software Technology
- User System Interaction

Region of Eindhoven, Technology Hotspot in the Netherlands

- The industrial and technological mainstay of the Netherlands: 50% of Dutch Research & Development expenditure takes place in this region and 30% of regional employment is related to the industrial sector. The Dutch government has qualified the Eindhoven region as a Technology Hotspot in the Netherlands.
- A population of 728,000 and 43,000 enterprises (with many start-ups in the technology sector). The Eindhoven region hosts a large number of high-tech enterprises, including the multinational Royal Philips Electronics group and ASML.
- The High Tech Campus Eindhoven, a special area where the renowned Philips Research and a growing number of other research groups, institutes and companies work together in an open innovation environment. The most recent institute to join is the Holst Center for autonomous wireless transducer solutions and systems-in-foil (initiative of IMEC Leuven, TNO and Philips), in which TU/e participates.
- A strong concentration of educational institutes such as TU/e, Fontys University of Applied Sciences, and the Design Academy Eindhoven.
- Direct connections to the European road system and the European railway network. Direct flights to and from Eindhoven Airport.
- Important cultural facilities (including the Van Abbe Museum for modern art, the Frits Philips Music Center, and the Parc Theatre) are located in the Eindhoven region.

To give the number of women in scientific positions an extra boost, TU/e appointed five women researchers as assistant professors in tenure tracks in 2006. In 2009 TU/e intends to add a further five women scientists.

With Campus 2020, TU/e has established an accommodation plan for a compact campus - a building complex at the south-west edge of the university terrain, where all departments will be grouped around a traffic-free, green central area.

Geographical origin of foreign companies in the Eindhoven region (2007)

Country	Number of companies
USA	76
Germany	60
Taiwan	28
United Kingdom	27
Belgium	21

source: NV Rede

