Delegation from Iran Visit at TU Darmstadt on October, 16th 2018 in cooperation with German Rectors' Conference (HRK) Bonn



TECHNISCHE UNIVERSITÄT DARMSTADT

Greeting

Prof. Dr.-Ing. Ralph Bruder Vice President Academic Affairs TU Darmstadt



We are one of Germany's leading universities of technology

History



1836 Established as a higher vocational school and polytechnic institute1877 Becomes an institute of technology2005 Germany's first autonomous university



People





Budget



Funds DFG* other 22.4 27.5 third party state funding funding 164.7 22.5 246.5 Industry Federal other Bund-Länder-2017 figures basic funds Hochschulpakt * German Research Foundation

In 2017 TU Darmstadt received a total of 453.2 million euros.

Basic funding from the State of Hesse covers approx. 54.4% of the total budget.

Departments

Engineering

Civil and Environmental Engineering Architecture Mechanical Engineering Electrical Engineering and Information Technology Computer Science

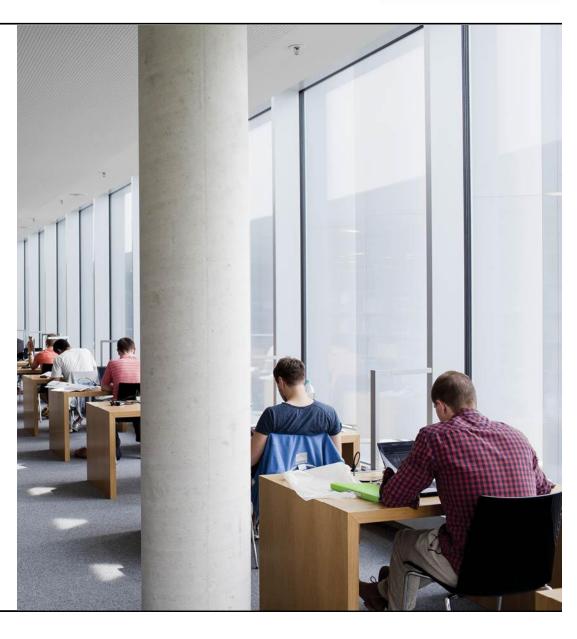
Natural Sciences

Mathematics Physics Chemistry Biology Materials and Earth Sciences

Humanities

Law and Economics History and Social Sciences Human Sciences





Locations



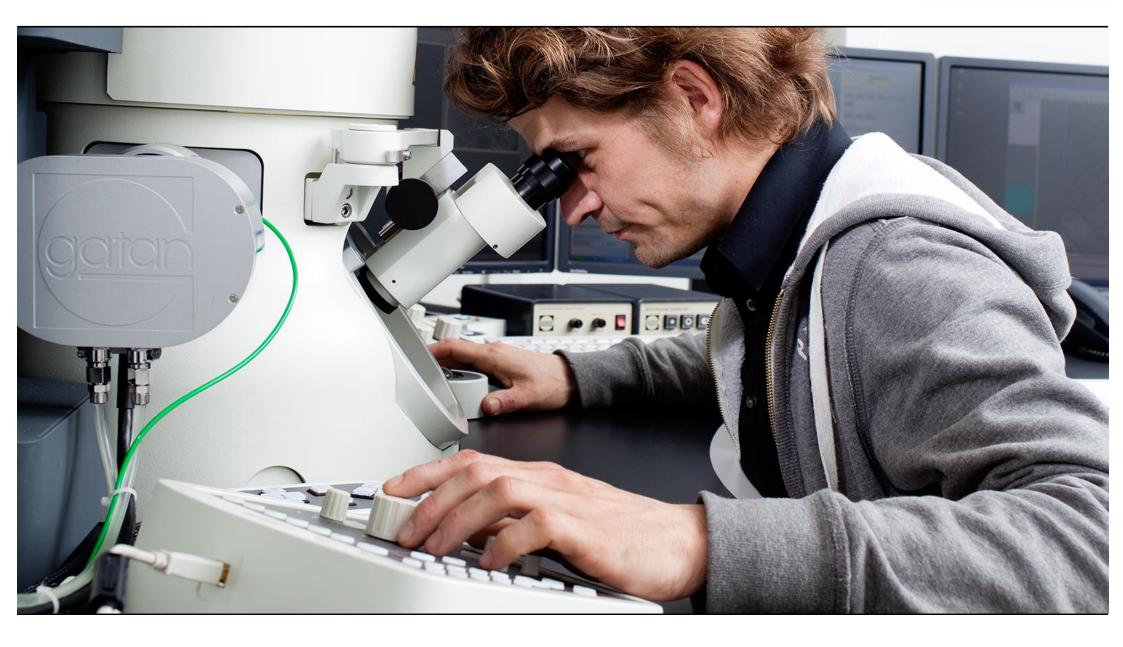
City centre (*Stadtmitte*) *Lichtwiese* Botanical Gardens University Stadium August Euler Airfield (with wind tunnel)

250 hectares of property312,000 square metres of usable space164 buildings

Research Profile

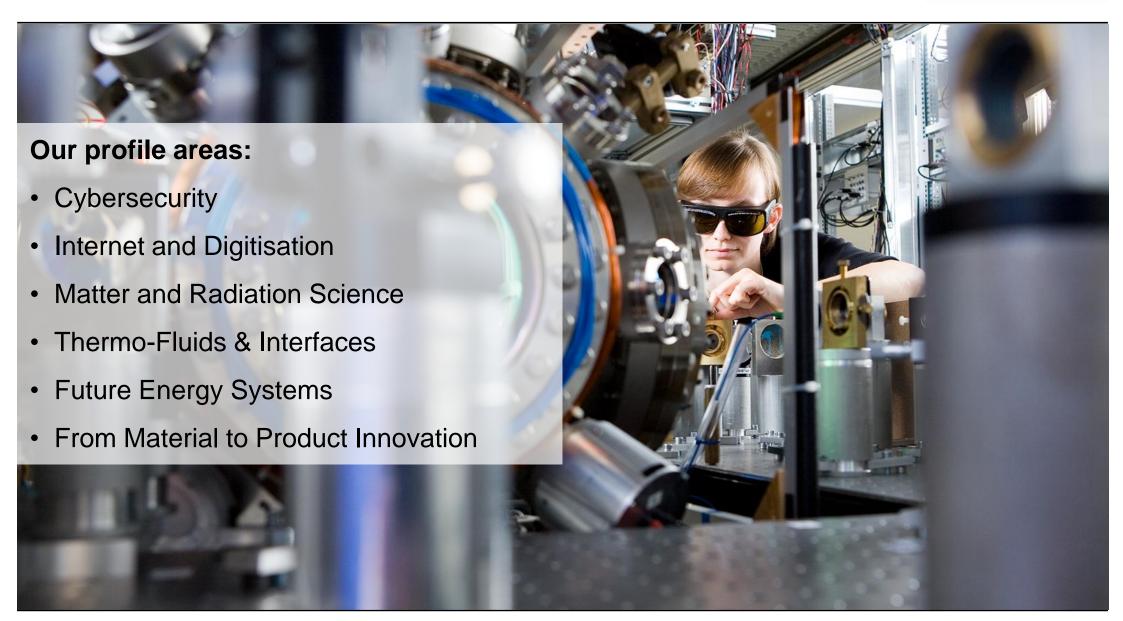


TECHNISCHE UNIVERSITÄT DARMSTADT



Highly interdisciplinary





Global reputation



TECHNISCHE UNIVERSITÄT DARMSTADT

TU Darmstadt is the most attractive German university for foreign visiting scholars and researchers in the field of engineering science.

"A top spot in the Humboldt Ranking is an important indicator of international contacts and reputation."

(Alexander von Humboldt Foundation)

Engineering ranking

Ranked 1 st	TU Darmstadt
Ranked 1 st	TU Munich
Ranked 3 rd	TU Berlin
Ranked 4 th	RWTH Aachen
Ranked 4 th	University Erlangen-Nuremberg



Top location for junior academics

1 conversion



Ingenium – Young Researchers at TU Darmstadt: umbrella organization for promoting early career researchers

6 DFG Research Training Groups

2 Graduate schools within the Excellence Initiative

Graduate School of Energy Science and Engineering Graduate School of Computational Engineering

5 Heinz Maier-Leibnitz prizes awarded by the German Research Foundation since 2008



Strategy at TU Darmstadt



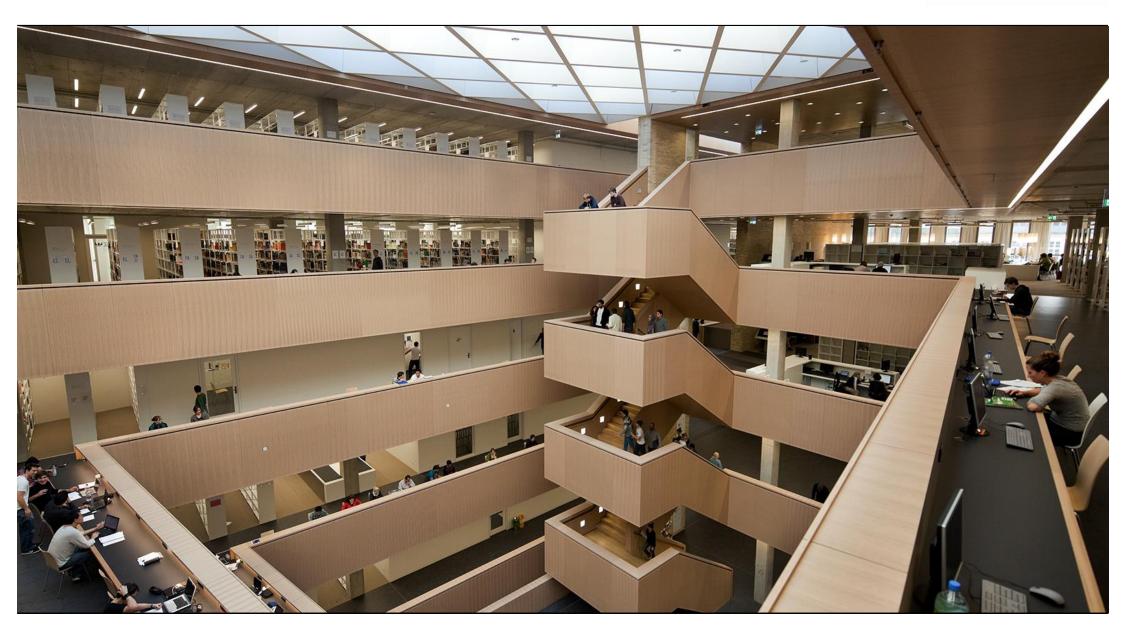
- University-wide strategy for the promotion
 of early career researchers
- Holistic, consistent approach to promoting early career researchers in all qualification phases:
 - Doctoral phase (R1)
 - Postdoctoral phase (R2)
 - Qualification phase for a professorship (R3)
- Needs- and career-appropriate support in all qualification phases



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Study Profile





Curious about the future

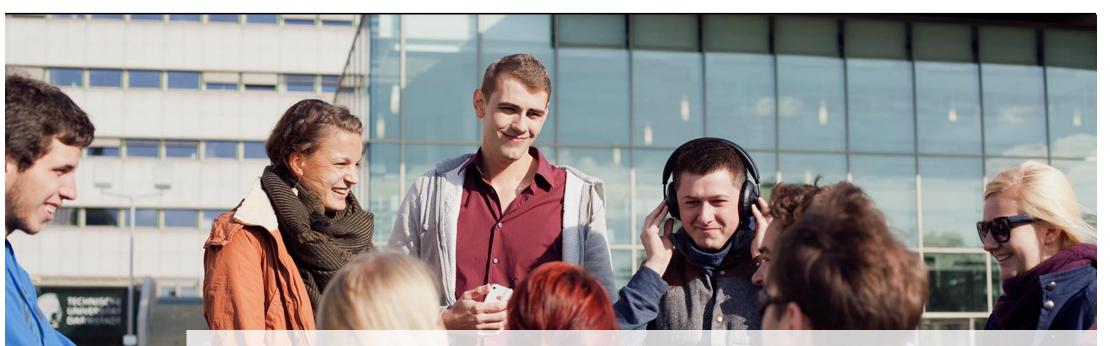




Cosmopolitan







We have been an internationally oriented university ever since our founding.

In the year 1900, one fifth of our students came from abroad. The situation is just the same today.

We are now one of the German universities with the highest proportion of international students.

International



Bachelor's studies Master's studies **Proportion of international* Proportion of international*** students students 12 25 * All persons with foreign citizenship

Diversity

Our students come from 118 countries including **China** (830) **India** (340) Pakistan (190) **Iran** (150) **Tunisia** (140) **Turkey** (120) **Syria** (90) **Cameroon** (80) **Russia** (80) **Brazil** (70) **Bulgaria** (70)

2017/18 figures Students who obtained their university entrance qualifications outside of Germany

Reputation and visibility International presence of TU Darmstadt



TECHNISCHE UNIVERSITÄT DARMSTADT

 Strategic partnerships (Tongji, Virginia Tech, TU Graz)



 High level partnerships with universities and research institutes (new partnerships with e.g. KAIST, Technion, UTSydney, WashingtonStateU, UTexas, UToronto, TRIUMF...)

 Participation in associations and networks (esp. Cluster)



Learning with a practical focus



TECHNISCHE UNIVERSITÄT DARMSTADT



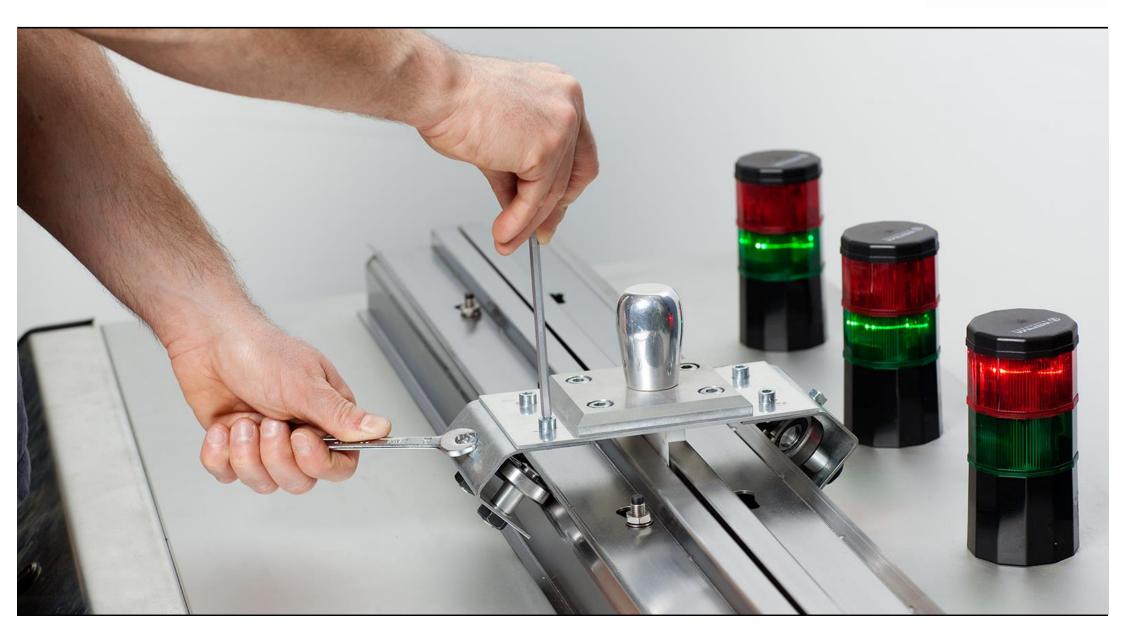
Europe's first Process Learning Factory on campus: students experience the whole value chain from processing raw materials through to assembly.

ETA model factory on campus: researching and demonstrating ways of maximizing energy efficiency in industrial production processes. The project is fundend by the federal government, the state and 30 companies.

Knowledge and Technology Transfer







Cooperating to find solutions





Our innovative power has earned the support of business, science, government and society.

Strategic partnerships and cooperation with companies:

- Bosch (mobility, industrial engineering)
- Continental (automotive)
- Deutsche Bahn (rail, logistics)
- Merck (healthcare, life science, performance materials)
- Siemens (energy systems, mobility, healthcare)

Encouraging start-ups



Current successful start-ups

Alcan	satellite antennae for reliable vehicle-based Wi-Fi	
Wingcopter	transport drones with aircraft-like capabilities	
Tracktics	Intelligent management of performance data in the field of professional sport	
IT-Seal	cyber-crime awareness in the corporate environment	
Compredict	vehicle component operational status sensor technology	
Wer-denkt-was Internet platforms for digital citizen participation		
Meshcloud Fündung	multi-cloud service provider integration in strict and exclusive accordance with German security standards	
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85 Knowledge and technology-based companies were founded in and around TU Darmstadt since 2013.

HIGHEST, our centre for innovation and start-ups, inspires up-and-coming entrepreneurs and encourages product and business ideas.

Words of recommendation

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"In my opinion, you definitely ought to go to Darmstadt. They have a good polytechnic school there."

Albert Einstein, 1919