Facility of Aerospace Engineering TU Delft

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The Netherlands

Long-term vision of the faculty: http://lt.tudelft.nl/longtermvision

Highlights

NOVAIR and MANTA: two successful proposals in Horizon 2020’s Clean Sky 2 programme
TU Delft jointly organises Airbus Aimovation Summer Academy to connect students to innovation
Emeritus Professor of Aircraft Design Egbert Torenbeek receives Ludwig Prandl-Ring

Top Facts & Figures

Education
A broad Bachelor programme fully taught in English with a wide coverage of engineering disciplines. In the research-based Master programme the students specialise in a profile. The faculty population is highly international.

- 35% international
- 1300 students

Research

- 305 refereed articles in scientific journals (in: 2016)
- Approx. 30 PhD defenses per year
- Approx. 8 patents per year
- 140 FTE scientific staff
- 1 Graduate School with approx. 230 candidates

Strong in online education
- Member of the EdX platform
- Massive Open Online Courses: Introduction to Aeronautical Engineering (60,000+ participants)
- Online Master courses
- Blended courses
- Professional education

TU Delft participates in different global networks and partnerships
Cooperation with almost all major aerospace companies, universities and many SMEs

More info: www.online-learning.tudelft.nl

TU Delft
Faculty of Aerospace Engineering

Snapshot

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Snapshot
**Education**

A good balance between theory and practice, project work and hands-on experience

1 Bachelor programme
1 Master programme

Online Education
- Massive Open Online Courses
- Online Master courses
- Blended courses
- Professional education

**The T-shaped Engineer**
The BSc covers a broad base of aerospace engineering disciplines, foundational sciences and professional skills. In the MSc students acquire in-depth knowledge in a chosen field and expand professional and research skills.

**The T-shaped Engineer**

- **BSc**
  - Foundational Sciences
  - Engineering Sciences
  - Aerospace Engineering Sciences
  - Research skills
  - Intellectual skills

- **MSc**
  - Aerospace Engineering specialisation
  - Professional orientation
  - Research skills
  - Intellectual skills

**Design and Project Skills**
Design, project and collaboration skills are an integral part of the BSc. In the Design Synthesis Exercise e.g. students collaborate in teams to apply everything they learned in one complete design.

**Specialisations**
- Aerodynamics & Wind Energy
- Flight Performance & Propulsion
- Control & Operations
- Space Flight
- Aerospace Structures & Materials
- EWEM: Rotor Design

**Research**
A research powerhouse in Europe with a broad set of in-depth disciplines dedicated to aerospace engineering

- **Science**
- **Engineering**
- **Design**

**Research facilities:**
- Simona Flight Simulator
- Aircraft Hangar
- Cleanroom
- Micro Aerial Vehicles Laboratory
- Aerospace Structures and Materials Laboratory
- Cessna Citation II
- Cyber Zoo
- Wind Tunnels
- KUKA robot
- Sirius laser, etc.

**Cooperation**

**Internships and Graduation Projects**
All students in the MSc programme Aerospace Engineering do an internship of at least 3 months in a company, university or research centre. A large number of students also do their graduation projects within companies or knowledge institutes worldwide.

**Research Cooperation**
We cooperate with almost all major aerospace companies, with leading knowledge institutes and with SMEs. Our research efforts are enhanced through tailor-made collaborations, in European research projects and consortia and through bilateral cooperation around the world.

**Innovation**
Birthplace of many ideas for innovation. Students and staff transfer technology through remarkable spin-offs and projects.

**Pioneering Innovations**
Build an Aircraft
Access to Space
Innovation Region

**Spin-offs**

**Research**

**Engineering**

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

**Research groups**

- Aerosciences & Space Missions
- Air Transport Operations
- Aircraft Noise & Climate Effects
- Aircraft Structures & Computational Mechanics
- Aerospace Structures & Composites
- Structural Integrity & Composites

**Cooperation**

**Internships and Graduation Projects**

**Research Cooperation**

"The students come to us very knowledgeable of the F-35 product areas and they are well educated about aerospace industry in general. More importantly, they are highly motivated, do an excellent job and are very well regarded by all of their work teams." — Tom Burbage, Former Executive Vice President & General Manager Lockheed Martin, F-35 Program Integration, Fort Worth, Texas, USA.