

# Faculty of Aerospace Engineering TU Delft

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Long-term vision of the faculty:  
<http://lr.tudelft.nl/longtermvision>



## Highlights



NOVAIR and MANTA: two successful proposals in Horizon 2020's Clean Sky 2 programme



TU Delft jointly organises Airbus Airnovation Summer Academy to connect students to innovation

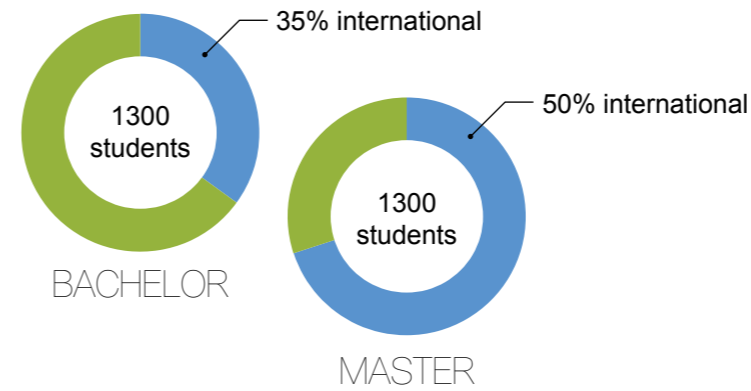


Emeritus Professor of Aircraft Design Egbert Torenbeek receives Ludwig Prandtl-Ring

## 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.



### 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

More info: [www.online-learning.tudelft.nl](http://www.online-learning.tudelft.nl)

### TU Delft participates in different global networks and partnerships

Cooperation with almost all major aerospace companies, universities and many SMEs



Image: Shutterstock

TU Delft

Snapshot  
Faculty of Aerospace Engineering  
TU Delft

### 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

High-end facilities for education and research



# 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.



## Specialisations

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

## 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.



BirdPlane, a UAV inspired by geese

UAV for novel rescue assistance



Nano satellite for low orbit earth observation



# Innovation

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

## Pioneering Innovations



Building an Aircraft

Access to Space

Innovation Airport

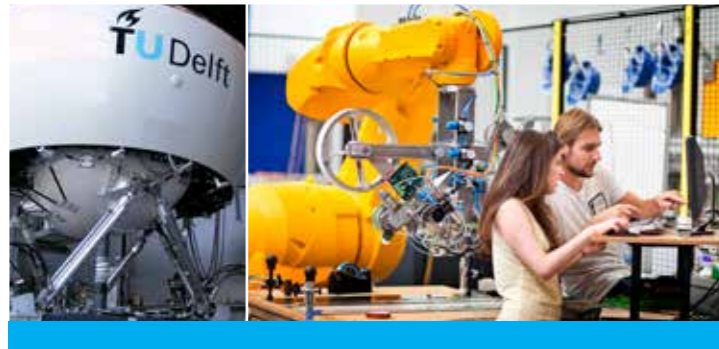
## Spin-offs



ATMOS UAV

ISIS

Ephicas (Wabco)



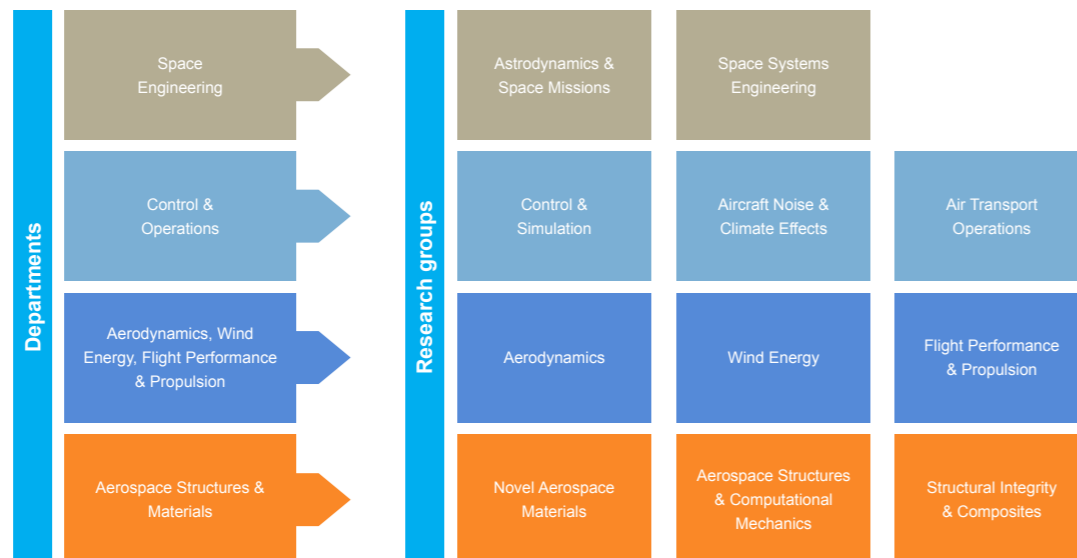
**Research facilities:** Simona Flight Simulator, Aircraft Hangar, Cleanroom, Micro Aerial Vehicles Laboratory, Aerospace Structures and Materials Laboratory, Cessna Citation II, Cyber Zoo, Wind Tunnels, KUKA robot, Sirius laser, etc.



# Research

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

- Science
- Engineering
- Design



# 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

*“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.

collaborations, in European research projects and consortia and through bilateral cooperation around the world.