MSc Aerospace Engineering

- Introduction to the Aerospace industry
- Outline MSc programmes
- Career prospects
- Master enrollment
- Nice to know
Introduction to the Aerospace industry
Challenges in Aeronautics

Environmental impact

Alternative energy sources
Developments in Aeronautics

Flying V

Wind Energy

60 m

80 m
Challenges in Spaceflight

- Miniaturisation of satellites
- Growth in spaceflight applications
Developments in Spaceflight

Delfi – PQ
Monitoring Earth from Space
Outline of the Aerospace Master Programmes
Tracks and Profiles

**Aerodynamics and Wind Energy**

**Aerodynamics**
The science of predicting and controlling air flows

**Wind Energy**
Innovation in analysis and sustainable design
Tracks and Profiles

Flight Performance and Propulsion

Flight Performance
Improve prediction and simulation of air-vehicle performance

Propulsion and Power
Novel or improved low emissions solutions
Tracks and Profiles

Control and Operation

Control and Simulation
Design and simulation of flight control systems, etc.

Sustainable Air Transport
Study efficiency and safety of aerospace operations
Tracks and Profiles

**Space Flight**

**Space Engineering**
Design, development, construction, testing and operation of space vehicles

**Space Exploration**
Spacecraft navigation and planetary missions
**Aerospace Structures and Materials**

<table>
<thead>
<tr>
<th>Materials and Manufacturing</th>
<th>Design and Safety of Structures</th>
<th>Structures for Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developing new high-performing materials and advanced manufacturing technologies</td>
<td>Creating innovative and robust lightweight structures</td>
<td>Design, analysis and verification of the next generation of spacecraft and launcher structures</td>
</tr>
</tbody>
</table>
Programme Structure

YEAR 1

Courses [60 EC]

Core Courses
Elective Courses

YEAR 2

J.I. Project [15 EC]

Internship [15 EC]

Thesis [45 EC]
Tracks and Profiles

European Wind Energy Master

Rotor Design
Aerodynamics, structure, material and design

TU Delft
Programme Structure EWEM
Double degree programme (AE MSc + Partner University)

YEAR 1
AWE Courses
TU Delft

YEAR 2
Partner University

Thesis
Location depends on thesis topic

Partner University
Career Prospects
## Career Prospects

<table>
<thead>
<tr>
<th>40%</th>
<th>60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering industry</td>
<td>Other industries</td>
</tr>
<tr>
<td>15%</td>
<td>Abroad</td>
</tr>
</tbody>
</table>

- Aircraft Design
- Rocket Engineering
- Satellite Industry
- Airlines
- Airports

- Engineering in other sectors
- Consultancy
- Management
- Start-ups
Master Enrollment
MSc Enrollment Dates

BSc degree from a Dutch University or HBO
  • Application deadline: 1st May

BSc degree from a non-Dutch University or HBO
  • Non-EU applicants:
    Application deadline: 15th January
  • EU applicants:
    Application deadline: 1st April
Nice to Know
Facts and Figures

100% English-language English BSc and MSc programme

43% International MSc Students

1508 MSc Students

Times Higher Education Ranking 21st Place

Great career opportunities

- International connections
- Opportunities to study abroad
Master Societies

Societies per track that organise:

- Lunch lectures
- Career events
- Drinks and parties
Contact Information

+31 (0)15 278 7192

Study-AE@tudelft.nl
www.tudelft.nl/ae

AETUDelft

TUDelftAerospaceEngineering

aetudelft