SCIENCES, INGÉNIERIE ET TECHNOLOGIES

ADVANCED MASTER AERONAUTICAL ENGINEERING (TAS AERO)

Niveau d'étude visé
BAC +6

Diplôme
Mastère spécialisé

Domaine(s) d'étude
Ingénierie aéronautique et spatiale

Accessible en
Formation initiale, Formation continue

Établissements
ISAE - SUPAERO

Présentation

The advanced master "**Aeronautical Engineering**" ensures participants to acquire a broad understanding of aerospace engineering and the aeronautics industry.

Objectifs

The TAS AERO Advanced Master program is dedicated to Aeronautical Engineering and Human Factors. The program includes a common core and one of the following majors : Design process and Engineering (TAS AERO-ADE) or Flight Test Engineering (TAS AERO - FTE). The TAS AERO Advanced Master enables students to develop a high level of expertise in engineering science, human factors, current aeronautical technologies and design.

The TAS Aero curriculum includes a broad spectrum of subjects with the following objectives:

• develop an integrated approach to the product design and validation, while acquiring the skills in the disciplines and techniques required in the aeronautical sector,
• make future engineers aware of human factors issues,
• facilitate work on multidisciplinary projects in aeronautics with a very practical approach,
• develop skills in project-management, team building and team processes at a multinational level,

The major in Aircraft Design Engineering – ADE - focuses on the process and tools required during all Design phases from Conceptual to Detailed Design.

The major in Flight Test Engineering - FTE - The Verification and Validation process, with a focus on defining tests and operating aspects.

Admission

Conditions d'admission

The applicants must hold the following degrees:

* A **Master's Degree** or an equivalent degree
* Or a **Bachelor's Degree** with at least 3 years of professional experience
* International degree equivalent to the aforementioned degrees.

For candidates who do not meet these conditions but can justify 5 years of significant professional experience, these programs can be accessed via the Validation of Professional and Personal Acquisitions - VAPP

Et après...

Insertion professionnelle

CAREER OPPORTUNITIES

More than 1100 students from 55 countries have been trained over the last 30 years and now work as research engineers, designers, project managers, program managers, and consultants, in companies such as Airbus, DGA Essais en Vol, AKKA, CAPGEMINI, MBDA, Dassault, ArianeGroup...

CAREER OUTCOMES

- Test engineer
- Flight physics engineer
- Flight Test Analysis engineer
- Airworthiness engineer
- Flight performance engineer

You can find on this page the job survey concerning our last Advanced Masters graduates

Contact(s)

Autres contacts

For more information, please visit the TAS AERO Advanced Master webpage

If you have any question

- if you are a student, please contact info-programmes@isae-supaero.fr

- if you are a professional, please contact info.exed@isae-supaero.fr

Accessibilité des lieux et modalités d'enseignement aux étudiants en situation de handicap

The Advanced Master is accessible to persons with disabilities (PSH).

In the event that a learner is in a situation of disability, his or her needs (whatever they are educational, material, technical, human, etc.) are taken into account by the ISAE-SUPAERO's Disability Advisor. ISAE-SUPAERO provides the expertise, the tools, and the networks needed to facilitate the access to premises and resources, to prepare certifications and take examinations.

Infos pratiques

Lieu(x)

Toulouse

En savoir plus

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https://www.isae-supaero.fr/en/academics/advanced-masters/programs/advanced-master-aeronautical-engineering-tas-aero/

Programme

Organisation

1st semester:

Common Core

Part 1: Structures and materials

Part 2: Flight physics

Part 3: Avionic and Systems

MAJORS

* Flight test engineering major - FTE
OR

* Aircraft design engineering major - ADE

2nd semester:

Students are required to conduct a 4 to 6 months professional thesis or internship.

• with a company in the aerospace industry,

• in France or Abroad, supervised by the host organisation and ISAE-SUPAERO.

The thesis concludes with the submission of a report and an oral defence in front of a jury