SCIENCES, INGÉNIERIE ET TECHNOLOGIES

ADVANCED MASTER IN ADVANCED MANUFACTURING PROCESSES FOR AERONAUTICAL & SPACE STRUCTURES (AMPAS)

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, IMT Mines Albi-Carmaux

Présentation



This Advanced Master will give a specialization to master level students allowing them to take over high level responsibilities in airframe structure manufacturing plants.

Objectifs

The Aeronautical industry market is facing a rapid and continuous increase worldwide. Estimations are that the number of large commercial aircraft will double by 2030. Nearly sixty percent of the
turnover is sub-contracted out all over the world and concerns mostlyproduction and manufacturing activities. As a consequence, most aeronautical subcontracting companies will have to increase their
production rates but also to keep in step with technological changes; moving from metal-based processes toward composite materials processes. Moreover aircraft manufacturers have changed their supply chain structures in recent years, and subcontractors are now required to manage more complex parts and to take over, on their own, the qualification processes.
The Advanced Master course AMPAS, is designed by IMT Mines Albi and ISAE-SUPAERO with the support of aeronautical industry partners. It will give a specialization to master level students allowing
them to take over high level responsibilities in airframe structure manufacturing plants. It is especially well suited to students who have followed general studies in mechanical engineering, material science or
equivalent and who would like to gain a major chance to be recruited in the aeronautical industry

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.

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Dernière mise à jour le 18 novembre 2026

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

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.

Données d'admissions par spécialités (bac général) : falsefalse

Et après...

Insertion professionnelle

The Master course offers challenging career opportunities for those who require a postgraduate program to enhance and/or sharpen their technical and management skills in the aeronautical industry. Career opportunities are numerous and growing all over the world, in subcontracting companies, as well as in aircraft manufacturers, aeronautical maintenance companies. AMPAS graduates can find employment, such as process, industrialization, production, quality, research and innovation engineers, product, project and production managers...

Companies recruiting our students
AIRBUS GROUP EFW (Dresde), AIRBUS OPERATIONS SAS, ALTEN, AKKA Engineering Process, ARMINES, AVIC COMAC, Fabrica Argentina deAviones, FORMTECH (Breme), SAFRAN Power Unit, SAFRAN Helicopter Engines, VENG SA . (Argentina), P3 GROUP, SAFRAN Aircraft Engineering, SAFRAN Electronics and Defense, SAFRAN Nacelles, DUQUEINE Atlantique...

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

Statistiques après l'obtention du diplôme : false6false

Débouchés professionnels : falsefalse

Contact(s)

Autres contacts

For more information, please visit ISAE-SUPAERO website

or contact info-programmes@isae-supaero.fr

Formation Continue : site web, email : info.exed@isae-supaero.fr

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

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Infos pratiques

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Lieu(x)

Toulouse

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Programme

Organisation

1st semester. Academic session provided by tenured professors of IMT Mines Albi and ISAE-SUPAERO and expert practitioners from the
aerospace industry to bring current knowledge and experience. The teaching, balancing academic lessons with more applied practice, includes:

• lectures and exercises • process simulation sessions
• laboratory sessions • practical sessions
• industrial conferences • industrial and workshop visits
• multidisciplinary 100-hour project • written report and oral presentation

2nd semester: Students are required to conduct a 4 to 6 months professional thesis or internship:
• in an industry or in a laboratory, • in France or abroad, supervised by a tutor from the host organization and from IMT Mines Albi or ISAE-SUPAERO.

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

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