

# ADVANCED MASTER IN HELICOPTER, AIRCRAFT AND DRONE ARCHITECTURE (HADA)



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 "Helicopter, Aircraft and Drone Architecture (HADA)" is jointly designed and developed by ISAE-SUPAERO and Airbus Helicopters. This program provides a high-level of engineering and technical skills for careers in the aircraft, helicopter and drone industries.

## Objectifs

This program provides the basic skills required for aeronautical engineers (architecture, certification and structures) and specific skills to identify problems, come up with alternatives, choose and implement solutions for aircraft, helicopter and drone projects. Drones and Urban taxis will be developed as they represent a growing part of the activity in the future aerospace sector. Industrial, regulatory and logistical challenges will therefore emerge. As a result, future aerospace engineers interested in being part of these innovative projects will need to call on and develop new

skills and expand their current knowledge. This program offers full training from electronic systems to structures and taking in aerodynamics, flight dynamics and certification while encouraging diversity in the profiles of selected applicants. This ADVANCED MASTER course teaches cutting edge techniques required for future aircraft and rotorcraft systems including the new challenges associated with urban mobility. The present program is a high level Master course recognized by industry and adapted to current and future aeronautical engineering.

## 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...

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### Insertion professionnelle

#### CAREER OPPORTUNITIES

This program prepares participants for a wide range of professional opportunities from design, certification and operation of civil and military aircraft, drones and helicopters in France and overseas. Companies recruiting our students CAPGEMINI, Airbus Group, Airbus Helicopters, Safran-Turbomeca, Thales, Dassault Aviation, Gendarmerie Nationale, Helibras (Brazil), AVIC (China) HAL (India), Pawan Hans Helicopters Ltd (India), Airbus Helicopters Mexico, Algerian Air Force, Brazilian Navy, Chile AirForce, Indian Air Force, Pakistan Army, Tunisian Air Force, Sauber f1 team...

You can find on this [🔗 page](#) the job survey concerning our last Advanced Masters graduates

## Contact(s)

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### Autres contacts

For more information, please visit the HADA Advanced Master [🔗 webpage](#)

If you have any question:

- if you are a student, please contact [🔗 info-programmes@isae-superaero.fr](mailto:info-programmes@isae-superaero.fr)
- if you are a professional, please contact [🔗 info.exed@isae-superaero.fr](mailto:info.exed@isae-superaero.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

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### Lieu(x)

📍 Toulouse

### En savoir plus

ADVANCED MASTER HELICOPTER, AIRCRAFT AND DRONE ARCHITECTURE (HADA)

[🔗 https://www.isae-superaero.fr/en/academics/advanced-masters/programs/advanced-master-helicopter-aircraft-and-drone-architecture-hada/](https://www.isae-superaero.fr/en/academics/advanced-masters/programs/advanced-master-helicopter-aircraft-and-drone-architecture-hada/)

# Programme

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## Organisation

### **1st semester:**

Part 1: Aircraft structures, Aircraft architecture and certifications

Part 2: Fixed-wing aircraft

Part 3: Helicopters

Part 4: Drones

### **2nd semester:**

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

- with an aerospace company or in a laboratory
- in France or Abroad supervised by a tutor from the host organization and from ISAE-SUPAERO.

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