



Post-Master Certificate in Aeronautical and Space Engineering

An ENSAM qualification accredited by the French 'Conférence des Grandes Écoles' (Association of leading engineering and business schools)



Management of Aeronautical
and Space Applications



BUSINESS SCHOOL
INSEEC
PARIS • BORDEAUX



**ARTS
ET MÉTIERS**
ParisTech

Bordeaux - Talence

AERONAUTICS & SPACE

AEROSPACE, A FIELD IN CONSTANT EVOLUTION THAT IS SUBJECT TO GLOBAL COMPETITION AND HAS MULTIPLE APPLICATIONS IN A VERY VARIED RANGE OF INDUSTRIAL SECTORS

▀ **THIS CREATES A GROWING NEED FOR COMPETENT SPECIALISTS**

▀ **THE POST-MASTER CERTIFICATE IN AERONAUTICAL AND SPACE ENGINEERING ADDRESSES THIS NEED**

This higher education master course is the result of a joint development **between**:

- a leading French engineering school: **Arts et Métiers ParisTech** at Bordeaux-Talence (ENSAM)
- a leading French business school: **INSEEC Business School** at Bordeaux
- five other higher education establishments in Bordeaux (ENSEIRB, ENSCPB, IDC, MATMECA and BEM)



▀ COURSE OBJECTIVES

Enhance graduate's entry to the aeronautical and space sector and fields where its applications are an advantage by:

- **Providing them with 'key' technical knowledge** in the field of aeronautical and space vehicles: aircraft, launchers, missiles, satellites or space platforms, drones, etc
- **Giving them the competences that allow them to take account of all aspects of the processes involved in the life cycle** of an aeronautical or space product: development, production, operation
- **Teaching them how to manage aeronautical and space applications**: structure of the sector, marketing, supply chain, finance, managing innovation, project management

SPECIALISED TRAINING

To satisfy the needs of a multi-skilled environment:

- an intense academic semester of about 500 hours of which 60% is provided by full time teachers from partner establishments and the remaining 40% by companies in the sector (45 ECTS credits)
Course languages: majority in English + French
- a 6-month industrial internship in a company with individual tutorship for their business projects for each student (30 ECTS credits)

▀ A CLOSE PARTNERSHIP AND INPUT FROM INDUSTRY

The course takes place in **Bordeaux, at the heart of the French and European aerospace industry**. It is integrated into 'Aerospace Valley', the Aeronautics, Space and Embedded Systems world class competitiveness cluster

Aeronautical and space sector companies are actively involved in all aspects of this Master course: preparing the programme, providing courses, giving conferences, receiving visits, accepting internships

Some of the main partners:

Aéroparc, ASTRIUM Space Transportation, Bordeaux Aquitaine Aéronautique & Spatial (BAAS), Bordeaux Technowest, CEA, CNES, DASSAULT Aviation, EADS, SNECMA PROPULSION SOLIDE (SAFRAN), Sabena Technics TAT Group, Sogerma Services, Sogerma training, THALES Airborne Systems, THALES Avionics, TURBOMECA, Union des Industries et Métiers de la Métallurgie (UIMM) Aquitaine

▀ CAREER PROSPECTS

Any positions that require both technical and management competences in the aeronautical and space fields or in the applications sector
Potential employers: major international companies, SMEs, startups
Entrepreneurship

THE COURSE PROGRAMME



THE COURSE PROGRAMME IS SPLIT INTO FOUR MODULES SPREAD OVER TWO SEMESTERS

Field trips to industrial sites and conferences with well-known experts are also included as part of the course

MODULES	VOLUME HOURS	ECTS
<p>Module 1: Aerospace vehicle architecture and operation</p> <ul style="list-style-type: none"> Satellites architecture and operation Aircraft Missiles and launchers Drones and other vehicles <p>Objective for Module 1: to provide students with knowledge about the constituents of aerospace vehicles and their operating modes in order to understand the processes of their life cycles and the resulting management requirements.</p>	100 h	10 ECTS
<p>Module 2: Life cycle processes</p> <ul style="list-style-type: none"> Development: Ground testing and integration Development: Flight testing Production: Industrial organisation Operation: Logistics, Maintenance Operation: Adaptation to the mission Regulations and certification <p>Objective for Module 2: to allow students to discover and analyse the main life cycle processes via examples of their use in applications for aircraft, launchers, missiles or satellites</p>	176 h	17 ECTS
<p>Module 3: Managing aeronautical and space applications</p> <ul style="list-style-type: none"> Structure of aeronautical and space sector Marketing and strategic development Supply chain and strategy Management and finance Innovations and new applications Managing teams and projects 	200 h	18 ECTS
<p>Module 4: Internship to practice skills in a company</p> <ul style="list-style-type: none"> Tutorship for business project In company internship <p>Objectives for Modules 3 & 4: to prepare students for managing aeronautical and space applications by providing a methodological approach, which also includes financial and human factors, through the experience of managing a project in a company</p>	16 h / 6 Months	30 ECTS
TOTAL	492 h 6-month internship	75 ECTS

ENROLMENT



RECRUITMENT AND ACCEPTANCE CRITERIA

Holders of:

- A science or technology master degree
- A business master degree
- A 4-year degree and 3 years work experience
- A degree from a French Grande École d'Ingénieurs (leading engineering school)
- A degree from a French Grande Ecole de Commerce (leading business school)
- An equivalent degree

Selection:

- based on written application, an interview may be required
- 20 places are available

Course calendar:

- Academic semester: October - March
- In company internship: April - September

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APPLICATION FORM

To be downloaded from <http://www.ensam.eu>

Application deadline: 30th April for the 1st session, and 30th June for the 2nd session

Administration fee: 55 €

COURSE PRICE

9 150 €, which includes access to the course, written support material and administration

Completed applications should be sent to:

Arts et Métiers ParisTech
Centre de Bordeaux-Talence
Direction des Etudes et Formations
Mastère Spécialisé IAS
Esplanade des Arts et Métiers
33405 TALENCE Cedex, France



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