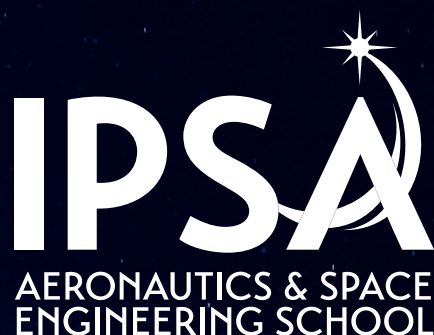


 In Paris



100% ENGLISH

1 OR 2 YEARS

FULL-TIME

MASTER OF SCIENCE IN AEROSPACE PROPULSION

**BECOME A KEY PLAYER IN
AEROSPACE INNOVATION!**

IPSA prepares you to be a bold, creative, and innovative graduate ready to make a difference in the aerospace propulsion sector.

Our MSc program immerses you in the most exciting technical challenges, equipping you with the tools to tackle them head-on. Join us to transform your ideas into real-world solutions in an increasingly competitive and climate-conscious landscape.

Aerospace propulsion Expert

Aerospace propulsion Project manager

Aerospace propulsion Design Offices

Aerospace propulsion Testing

In start-ups, labs or major groups (SAFRAN, etc.)



Application by email to [HYPERLINK
freemover@ipsa.fr](mailto:HYPERLINKfreemover@ipsa.fr)

Transcripts of the full bachelor's degree

Copy of Highest diploma or certificate of enrollment

2 letters of recommendation

TOEFL (80 IBT), TOEIC (785), or IELTS (6.0)

Motivation letter



PROCESS

Submission of application, Validation of the candidacy, Online interview, Admission results



REQUIREMENTS

In M1 : 3-year Bachelor of Engineering

In M2: 4-year Bachelor of Engineering or higher



FEES

Application fees: 60€

Tuition fees: 12 595€ per year



DEADLINE

June 30

More information : ipsa.fr/en/master-of-science-aerospace-propulsion

BE THE CHANGE YOU WANT TO SEE IN THE INDUSTRY!

SEMESTER 1 20 ECTS Courses	TEACHING UNIT	MODULE	
	Human Sciences and languages	<ul style="list-style-type: none"> • Intensive French language for Engineers • Cultural Integration Workshop • For foreign students, English for French-speaking students 	
	Engineering sciences	<ul style="list-style-type: none"> • Systems Engineering – Innovation • Introduction to 3D printing • Numerical techniques for resolving PDEs • Introduction to Mechanical vibrations and Structural Dynamics 	
	Specialization	<ul style="list-style-type: none"> • Fluid-Structures interactions • Climatic Engineering • Fluid Dynamics 	
SEMESTER 2 40 ECTS Courses + 4-month of internship	Languages	<ul style="list-style-type: none"> • French language for Engineers 	
	Engineering sciences	<ul style="list-style-type: none"> • Quality – Regulation – Standards – Lean <i>*optional</i> • Multiphysical systems graphical representation • Basic principle of aircraft design and eco-design • Flight mechanics : flying qualities 	
	Specialization	<ul style="list-style-type: none"> • Fluid dynamics • Power generation and hydrogen • Theory of plates and shells • Numerical calculations in structural mechanics (FEM) 	
	Aeronautics and space	<ul style="list-style-type: none"> • Design of turbomachinery • Thermal engine for UAV • Nuclear energy and propulsion • Aeroacoustics initiation 	
	Professional integration	<ul style="list-style-type: none"> • Internship information • Internship report • Industrial Evaluation 	
SEMESTER 3 40 ECTS Courses	Human Sciences, languages and Professional integration	<ul style="list-style-type: none"> • French language for engineers <i>*optional</i> • Human Factor and HMI – Risk analysis and safety • Knowledge & integration in industrial environment • Cybersecurity initiation • Reliability: AMDEC methodology • Project 	
	Specialization	<ul style="list-style-type: none"> • Hypersonic aerodynamics introduction • Vibration dynamics of plates and shells • Reliability & fatigue of structures • Airborne and ground payload • Computational Fluid Dynamics (CFD) 	
	Aeronautics and space	<ul style="list-style-type: none"> • Turbomachinery and design project for a turbojet reactor • Combustion • Space propulsion systems • Numerical calculations in heat transfer • Aeroacoustics • Turbulence 	<ul style="list-style-type: none"> • Electric and nuclear propulsion in spacecraft • Launchers and Satellite design • Conception of a space mission
SEMESTER 4 20 ECTS 4 to 6 months of internship		<ul style="list-style-type: none"> • Thesis report • Oral presentation • Industrial evaluation 	