

Study @ISAE-SUPAERO
(as a Partner University Student)

Sept. 2023



Study @ISAE-SUPAERO as a Partner University Student



Program

- Excellence : a world class actor in education and research
- Testimony Anthea Comellini
- Academics
- Research innovation & Entrepreneurship
- Student Life
- Industrial Environment
- Apply & Study @ISAE-SUPAERO
- Q&A



Speakers



Prof E. Zenou
Head of International



A. Comellini
Alumni / ESA Reserve Astronaut



D. Morice
Student mobility

Study @ISAE-SUPARO

1

Excellence

A world class actor
in education and research

2

Academics

Your success is our priority

3

Research, Innovation & Entrepreneurship

Scientific excellence,
academic visibility
& leading-edge technology

4

Student Life

Welcome to
our outstanding campus

5

Industrial Environment

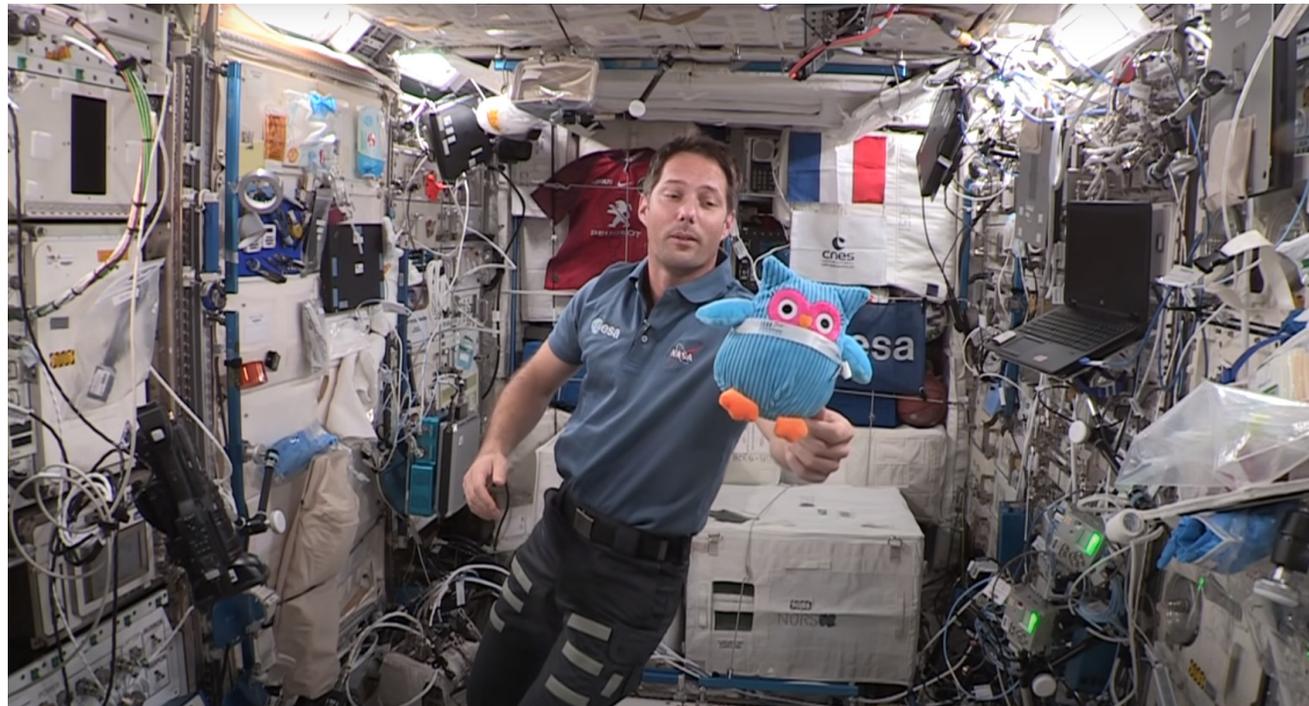
Toulouse
Capital of aerospace

6

Apply & Study @ISAE-SUPAERO

Join us !

EXCELLENCE



Key Figures at a Glance

1909

40%

Foreign
Students

> 100

Academic
Agreements

205

PhD students

1 900

Students

780

students graduated
a year
MS+PhD

24500

Alumni

110

Full time
Professors &
Researchers

65 M€

Budget

A few of our Alumni



ELODIE VIAU (M2008)
Director of Telecommunications and
Integrated Applications at the
European Space Agency



JUAN CANTILLO (S2004) Senior
Exploration Advisor at
TotalEnergies, Manager of LNG
exports to Japa



GUILLAUME FAURY (S1992)
CEO AIRBUS



AUDE VIGNELLES (E1991)
Chief Technology Officer
at the newly created Australian
Space Agency



OUSSAMA KHATIB (D1980)
Full Professor at Stanford
University, Director of
the Robotics Laboratory



Angélica CARDENAS SIERRA
R&T Coordinator for Aerostructures
Procurement at Airbus



GIUSEPPE CATALDO
NASA Planetary Protection Lead
for the last mission of NASA-ESA's
Mars Sample Return



**PRIYANKA DAS RAJKAKATI (S2017-
D2021)**
Aerospace engineer & Artist,
awarded Forbes India
30 under 30



OLIVIA DRAYSON (M2019)
PhD student in Environmental Toxicology at
the University of California Irvine

Sky is Not the Limit

1992 ESA selection



Jean-François Clervoy, France,
675 hours in space,
SUPAERO 1983

2009 ESA selection



Thomas Pesquet, France,
SUPAERO 2001



Samantha Cristoforetti, Italy,
Erasmus SUPAERO 2007



Luca Parmitano, Italy,
PMP in experimental flight test
engineering,
SUPAERO 2009

2022 ESA selection



Sophie Adenot, France,
SUPAERO 2004



Arnaud Prost, France,
SUPAERO 2017



Anthea Comellini, Italy,
SUPAERO 2017 PhD 2021

2022 ESA reserve astronaut selection

Our Student's employability

2023 FIRST JOB SURVEY ISAE-SUPAERO ENGINEERING PROGRAM

304 Interviewed graduates 88% response rate



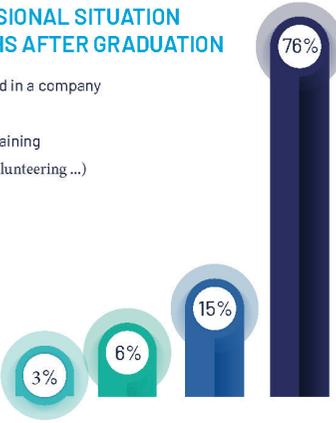
79% found their first job before graduating



90% are happy or very happy with their first job

PROFESSIONAL SITUATION 4 MONTHS AFTER GRADUATION

- Employed in a company
- PhD
- Study/Training
- Other (volunteering ...)

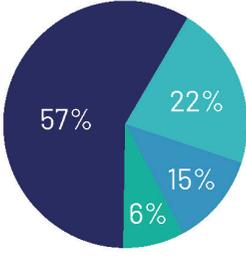


EMPLOYER BUSINESS SECTORS



COMPANY SIZE

- Large-sized companies
- Mid-sized companies
- Small-sized companies
- START-UPS/VSB

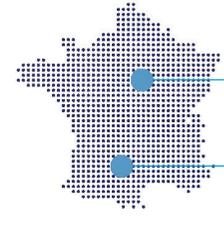


RECRUITERS

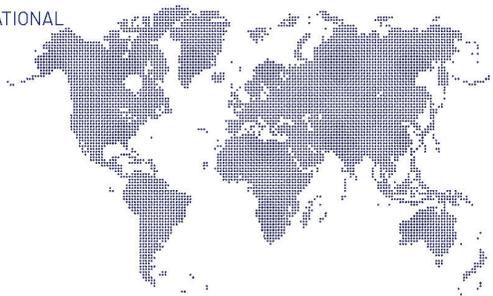


LOCATION

85% IN FRANCE



15% INTERNATIONAL



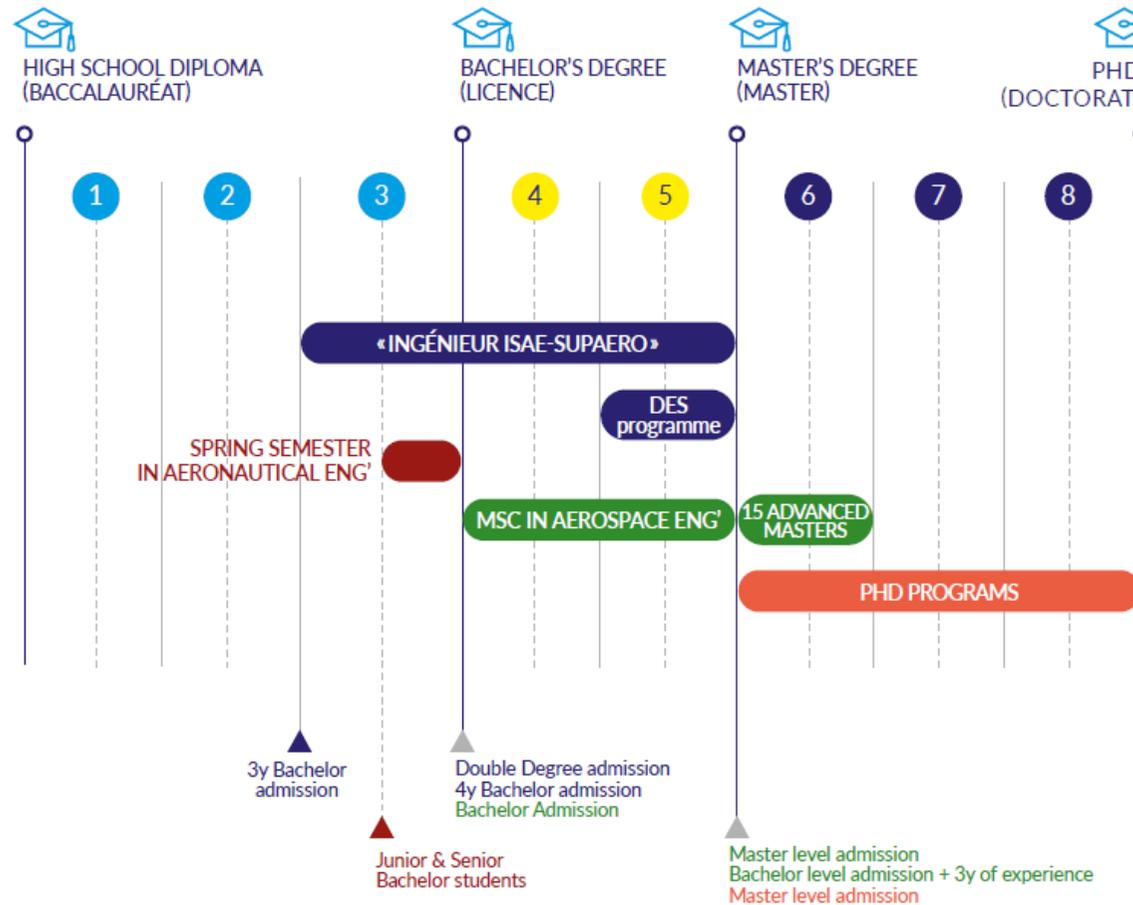
AVERAGE SALARY (bonuses and benefits included)



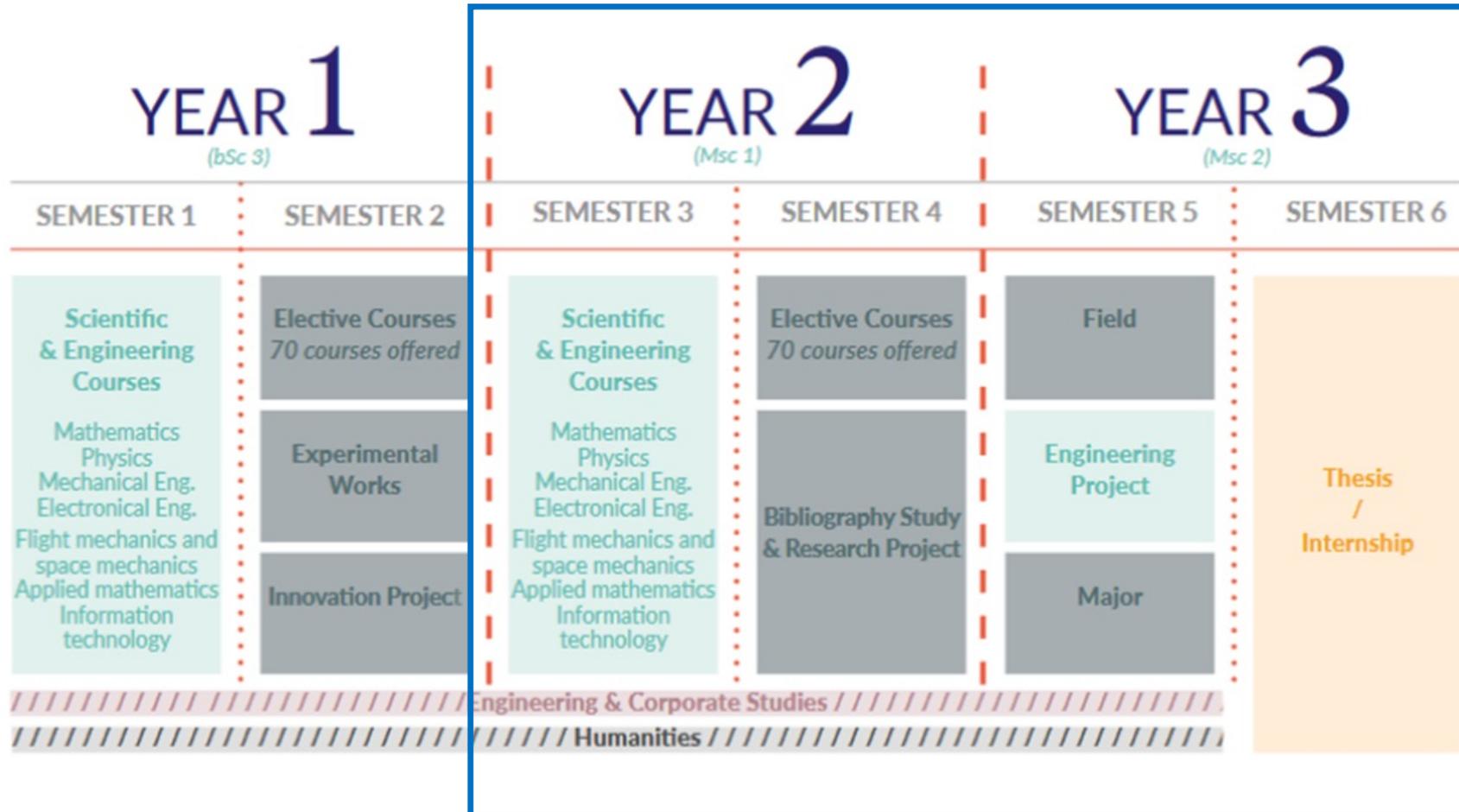
ACADEMICS



ISAE-SUPAERO Programs & Bologna Process



« Ingénieur ISAE-SUPAERO »



ISAE-SUPAERO

« Ingénieur ISAE-SUPAERO »

Motto: « Excellence with Passion »

Fundamental courses	Mechanical engineering	Electrical Engineering Course	Systems & Projects	Humanities	Economics and management
Applied maths	Aerodynamics	Control Theory	System Engineering	Arts & Cultural studies	Economics
Physics	Propulsion	Telecommunications	Functional Design	Languages & Communication	Finance
Space science	Energetics	Signal processing	Space Systems	Sports	Management
...	Structures	Image processing	Embedded Systems
	Materials	...	Research projects		
		

[Download brochure](#)

« Ingénieur ISAE-SUPAERO » Fields & Majors

Field (Domaine) 140 hrs

Major (Filière) 240 hrs

+

+

Interdisciplinary Engineering Project (80hr)

4-to-6 Student Project
Project Mgmt

ISAE-SUPAERO

RESEARCH, INNOVATION & ENTREPRENEURSHIP



ISAE-SUPAERO

Research @ISAE-SUPAERO



DAEP: Aerodynamics, Propulsion & Energetics

DMSM: Structures & Materials

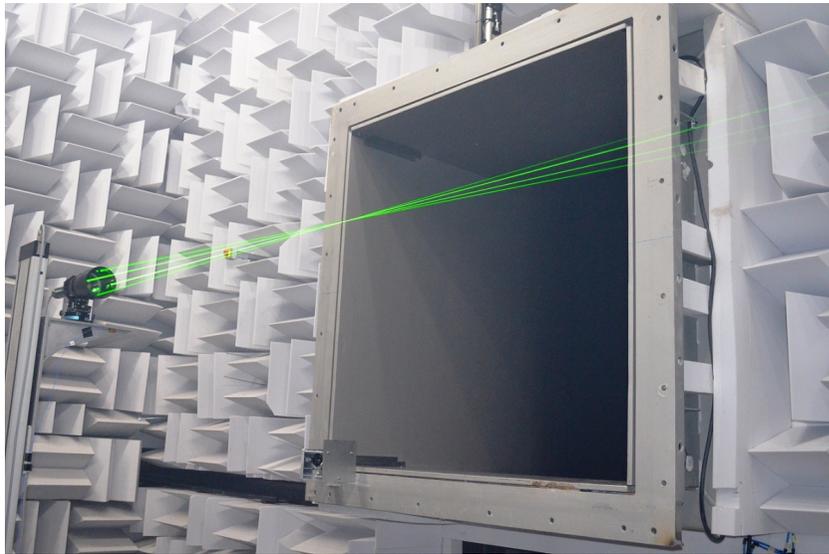
DISC: Applied Math, Computer Science, Embedded Systems, Networks, System Engineering, Data Science...

DEOS: Electronics, Optronics, Signal Processing, CMOS Sensors...

DCAS: Aerospace Systems, Control...

LACS: Languages & Humanities

Academic & Research Facilities



AeroAcoustic Wind Tunnel

Dimension (test section) 180 cm x 180 cm
Speed from 20 to 80 m/s
Cut-off frequency 200 Hz

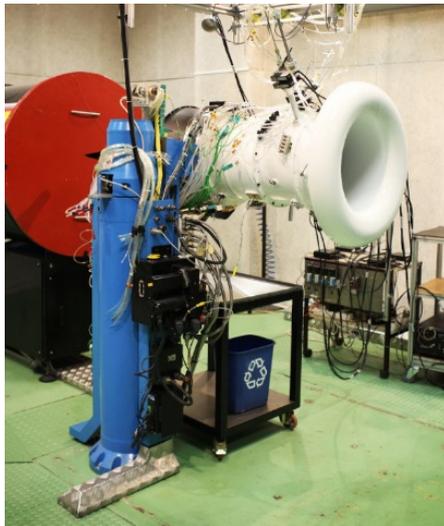


ISAE-SUPAERO

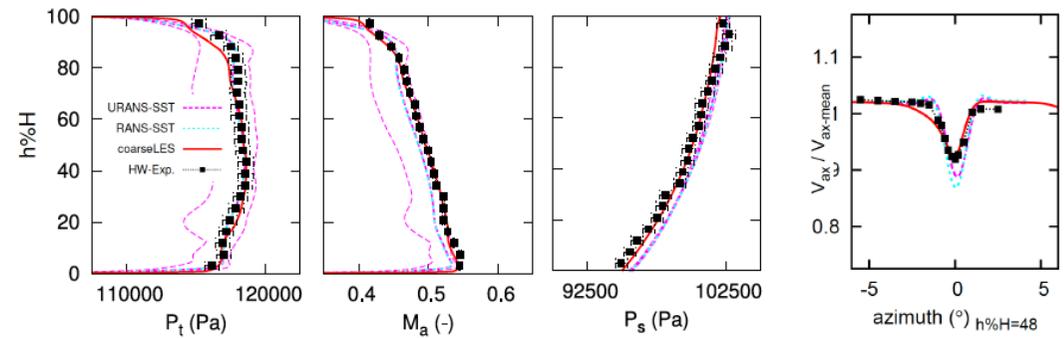
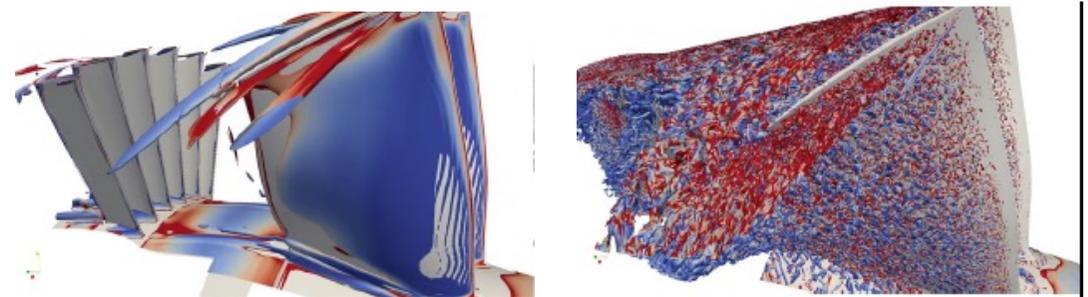
Low-Reynolds Wind Tunnel
Perfect 2 m/s
120 cm x 80 cm test section

Academic & Research Facilities

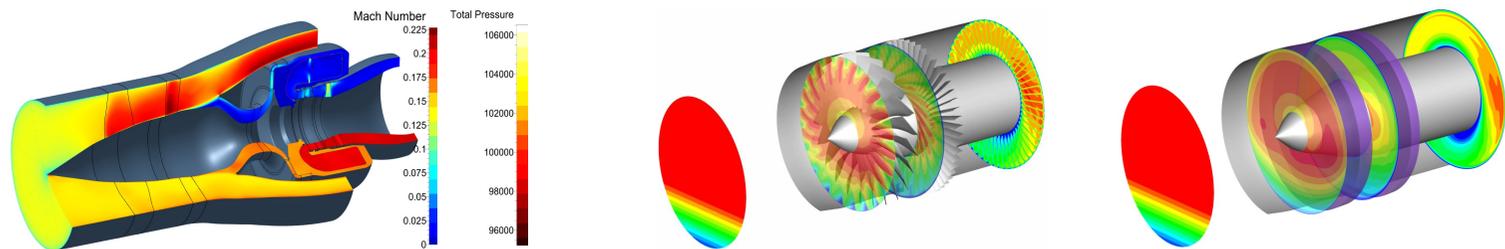
LES Computation/Validation – IC3 in-house code



DGEN 380 TurboJet
 Propulsion Test Bench
 250 daN Thrust
 Bypass ratio 6
 SFC 0.5 kg/h/daN



Low fidelity
 Body Forces Modelling
 Full engine

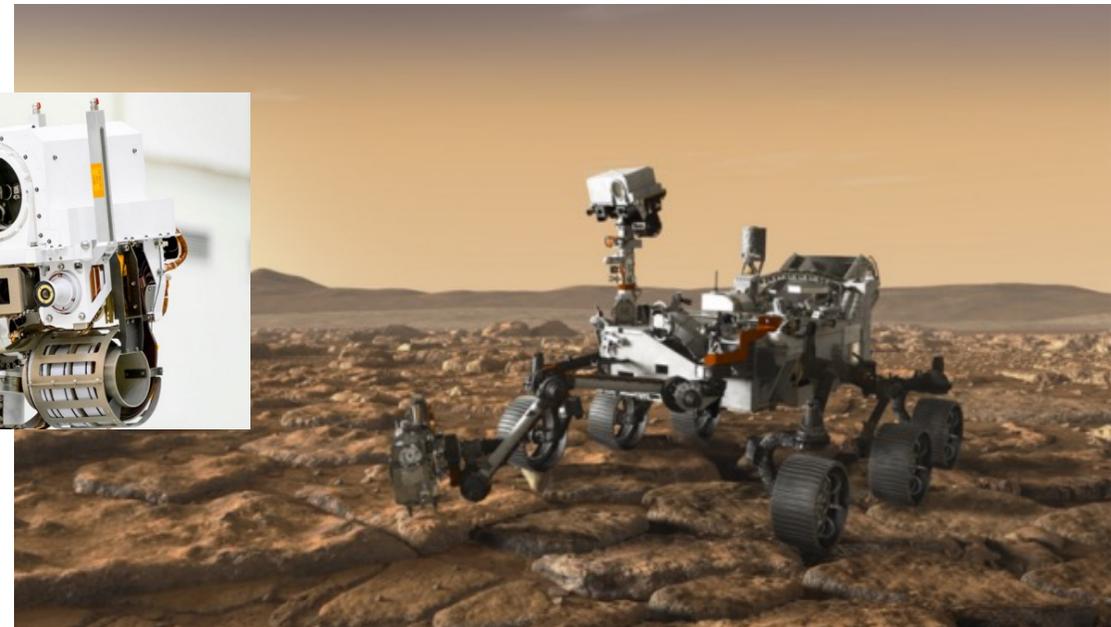
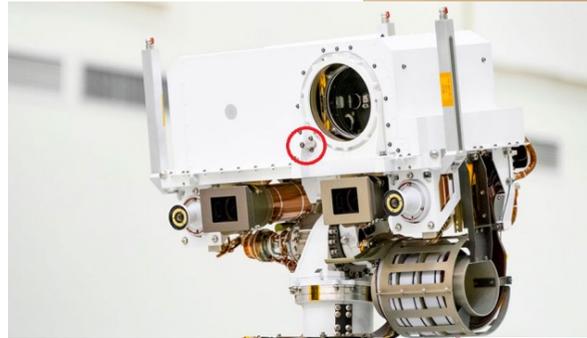


ISAE-SUPAERO

PERSEVERANCE & SUPERCAM

A **world first**: hearing the sounds of planet mars through a microphone made at ISAE-SUPAERO

APRIL 2022:
Publication in "Nature" science journal of the analyses of Martian sounds



DART PROJECT (Double Asteroid Redirection Test)

A team of isae-supaeero researchers takes part in the **first international planetary defence mission!**

The aim of the mission is to launch a missile probe that will crash into the near-Earth asteroid Dimorphos to modify its orbit and thus test our ability to avoid collisions with the Earth.



Academic & Research Facilities



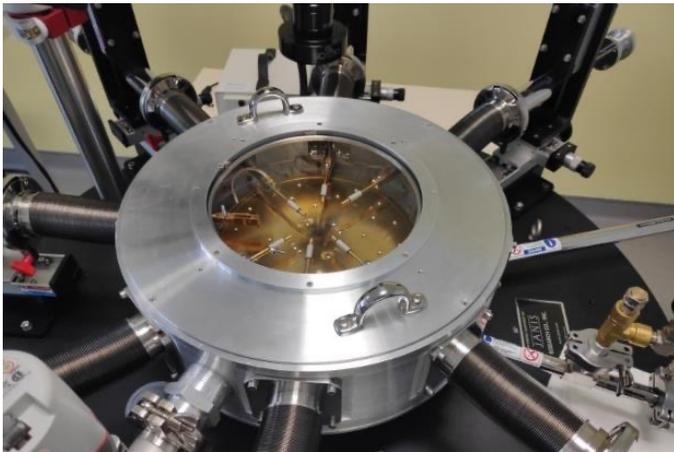
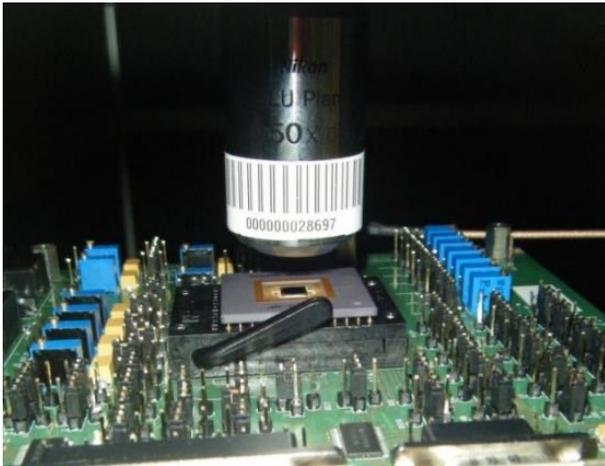
Fleet of 10 aircrafts
Instrumented TB20
Robin DR 400
Aquila...



Two Flight Simulators
For Human Machine Interface design
&
Flight Dynamics



Cutting-edge research equipment



Build a safe and sustainable society

Ecological and societal transition

ISAE-SUPAERO In the top 3 of the most committed institutions in the ecological and societal transition, and first for “training”



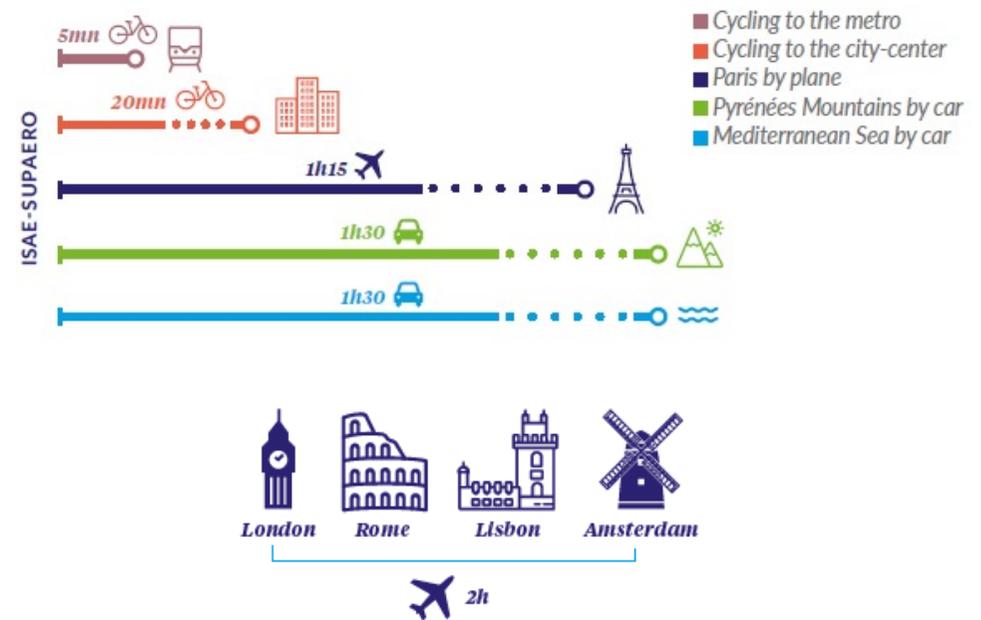
ISAE-SUPAERO publishes its aviation and climate reference



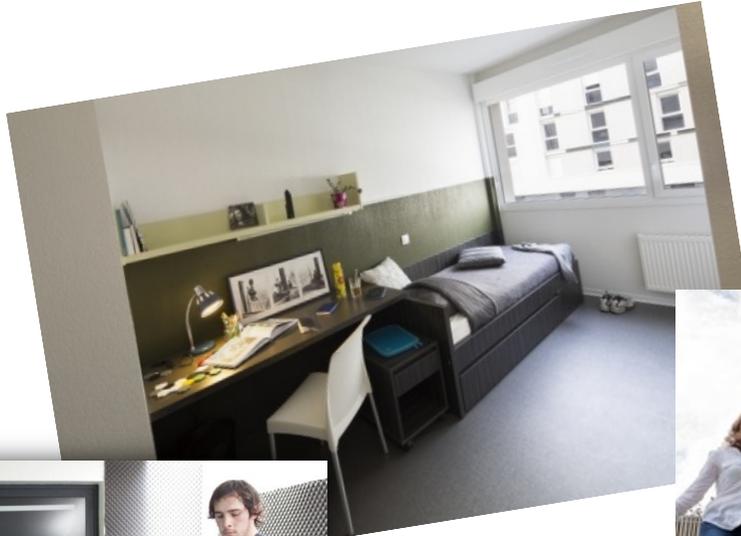
STUDENT LIFE



Toulouse has it all !

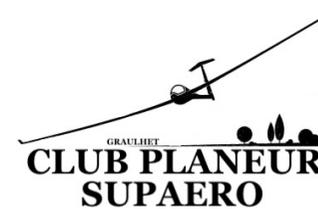
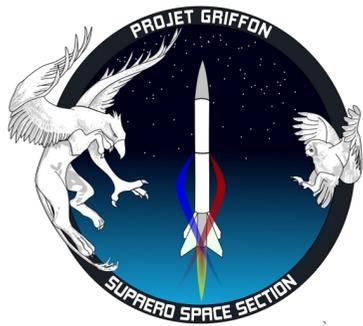


Campus Life



ISAE-SUPAERO

ISAE-SUPAERO Student Clubs...



All clubs...

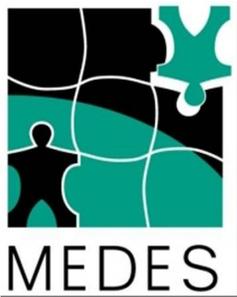
Toulouse: European Capital for Aerospace Activities

More than 100 000 jobs
in the aeronautics and
space sector

More than 100 000
students at l'Université
Fédérale de Toulouse



Academic Environments: Other Laboratories



ISAE-SUPAERO

Industrial Strategic Partnerships



Academic Network

Founding Member of « University of Toulouse »



115,000 students, 4,100 PhD students, 6,000 researchers



30 European aerospace universities in 12 countries, 3000 graduates per year



5 universities, 5 countries, 144 000 students and staff



59 members in 25 countries

Apply and Study at ISAE-SUPAERO





APPLY & STUDY @ISAE-SUPAERO

- Double degree
- Exchange semester(s)
- Research project
- Free mover

Many ways to study @ISAE-SUPAERO

APPLY & STUDY @ISAE-SUPAERO

You have to be selected by your University

=> Contact your University first!

- Double degree
- Exchange semester(s)
- Research project
- Free mover

Two selection committees:

1. October 2023:

- Double degree (early selection for EIFFEL Scholarship)
- Exchange semester (spring semester Year 2)

2. April 2024:

Double degree

Exchange semester(s) (Year 2 and Year 3)

APPLY & STUDY @ISAE-SUPAERO

If nominated for the double degree...

- Double degree

- Exchange semester(s)

- Research project

- Free mover

- An application link will be sent to you
- Application deadline: **October 15th, 2023**
- Required documents : Transcripts of Records from all previous academic years / Motivation Letter in French / Resume/CV in French / ID/Passport

French level certificate (B1) is required, you can provide it later.

Double degree students will have access to an intensive French course in August 2024

Contact email: incoming.df@isae-supero.fr

APPLY & STUDY @ISAE-SUPAERO

- Double degree

1 or 2 semester(s) during the **2nd year** of our Engineering program (semesters 3 and/or 4)

- Exchange semester(s)

1 semester during the **3rd year** (semester 5)

- Research project

For 1 year-long mobility during the 3rd year (semesters 5 and 6)

- Free mover

- Thesis only in an ISAE-SUPAERO lab
- Thesis / internship in an industrial partner: fee-paying **DES Diploma program**

APPLY & STUDY @ISAE-SUPAERO

- Double degree

Potentially granted for a research project in one of our labs
- Exchange semester(s)

You have to be chosen by one professor
- [Research project](#)

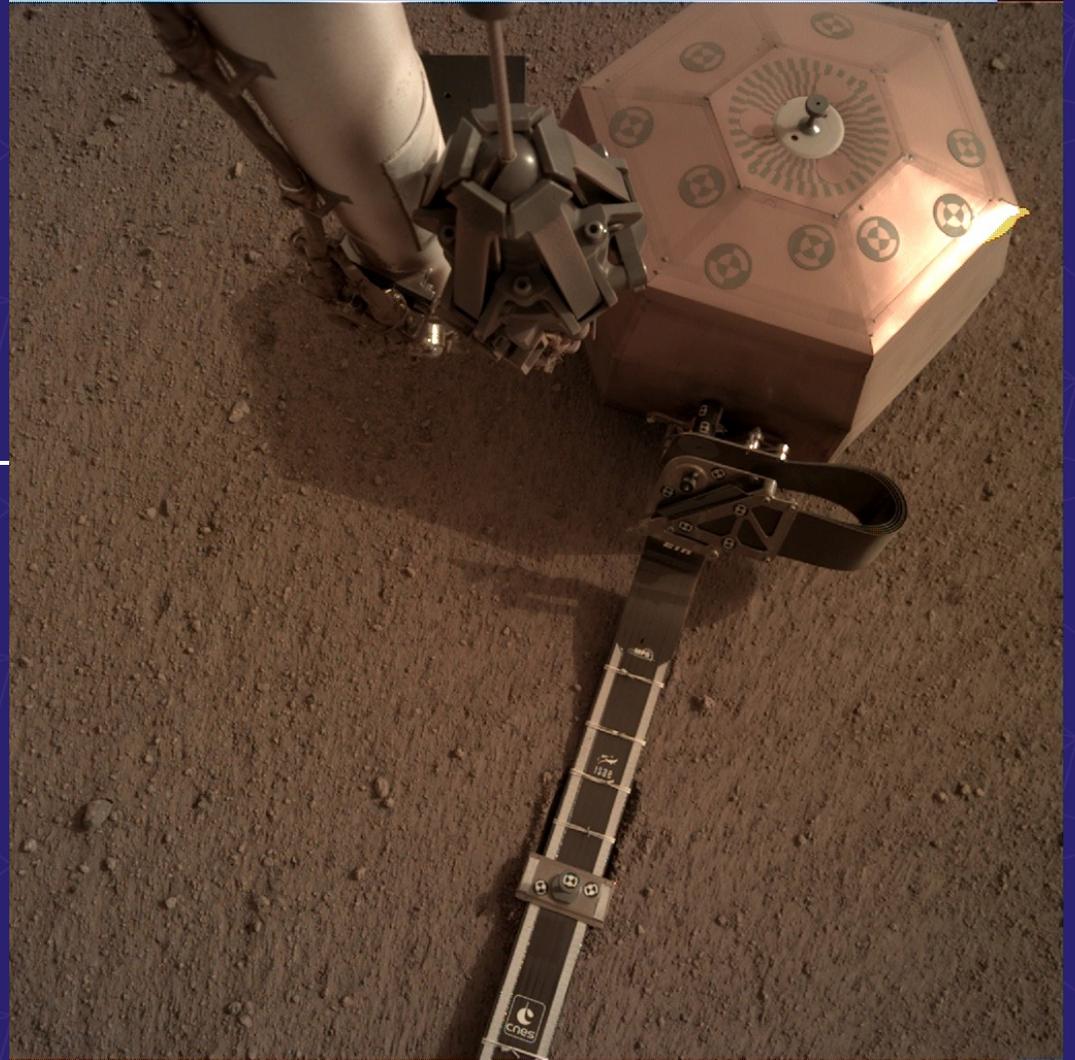
[\[Link\]](#)
- Free mover

TESTIMONY



**Thank you
for your attention**

Questions ?



Institut Supérieur de l'Aéronautique et de l'Espace

10, avenue Edouard Belin – BP 54032
31055 Toulouse Cedex 4 – France
T +33 5 61 33 80 80

www.isae-supaero.fr

