

PARIS

Located near the best student city in the world*, the IPSA Paris campus enjoys the economic and cultural dynamism of the French capital.

* British QS ranking



PARIS

TOULOUSE

TOULOUSE

The IPSA Toulouse campus enjoys the unique industrial environment of this large aerospace capital.

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PRIVATELY ENDOWED GRADUATE EDUCATIONAL INSTITUTION

WWW.IPSA.FR

POLYTECHNIC INSTITUTE OF ADVANCED SCIENCES

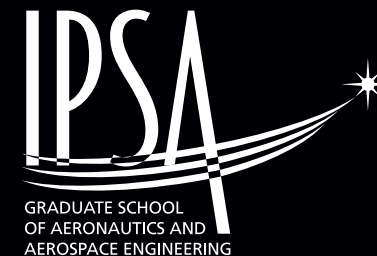
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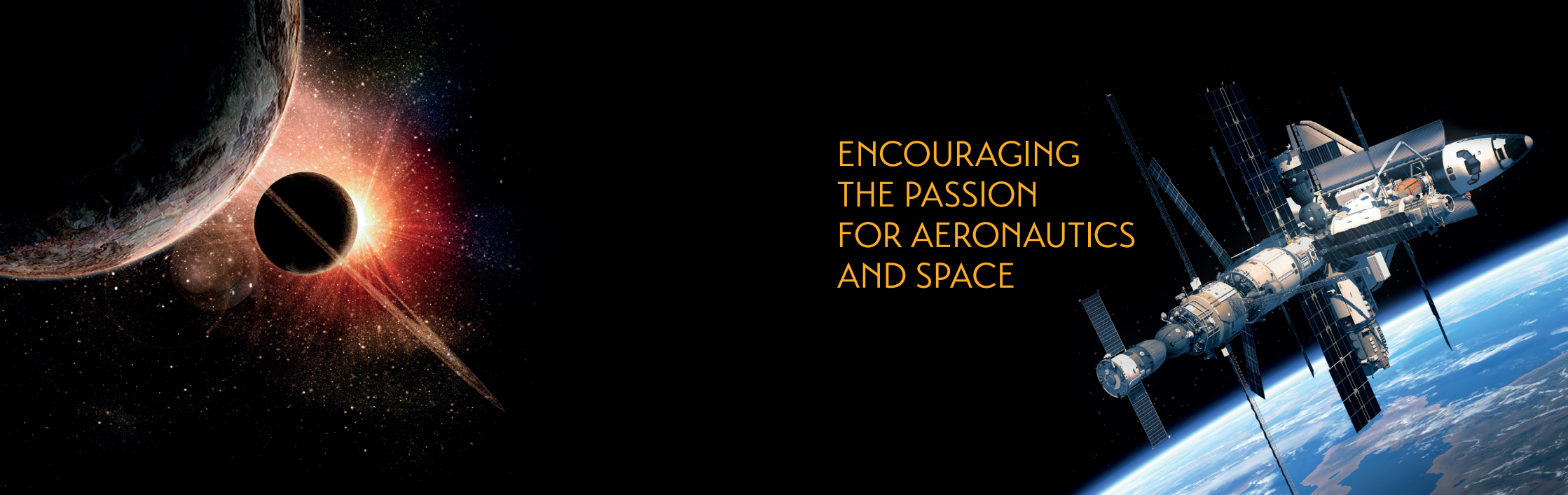


AERONAUTICS AND SPACE GRADUATE SCHOOL OF ENGINEERING



SCHOOL ACCREDITED BY NATIONAL ACCREDITATION BOARD (CTI)





ENCOURAGING
THE PASSION
FOR AERONAUTICS
AND SPACE

THE COLLEGE FOR AEROSPACE ENTHUSIASTS

IPSA is an engineering college offering a 5 year syllabus (accredited by the CTI*) 100% dedicated to Aeronautics and Space. The interest in 'everything Aerospace' is a particular source of motivation in the college and the passion is shared by both students and lecturers.

The pedagogy at IPSA is very specific. During their studies, Ipsaliens** have to:

- Develop the scientific skills essential to their future profession as engineers specializing in Aeronautics and space,
- consolidate their knowledge in the Humanities,
- remain in permanent contact with the world of work within the aeronautical and space sectors through internships or projects on industrial topics.

* The 'CTI' (Commission des Titres d'Ingénieur) is the organization which monitors and accredits the diplomas of engineering colleges in France.

** 'Ipsalien' is the nickname given to students studying at IPSA

PROJECT BASED PEDAGOGY

IPSA places its culture of projects at the center of the curriculum. Right from the start of training, students, working in teams, carry out projects on themes. These become increasingly complex from the 1st year of the engineering syllabus, finishing with a high level of technical content at the end of course. These projects teach students project management.

Examples of projects carried out by 'Ipsaliens' during the engineering syllabus.

- Choice of material for the thermal shield of a space shuttle. (3rd year)
- Aviation in the post-oil era? (3rd year)
- Design of a convertible drone (4th year)
- Design of a delta wing interceptor aircraft (4th year)
- Dimensioning an engine for a manned suborbital vehicle. (5th year)
- A study of the wing shape of a FALCON 2000 L (5th year)

THE IPSA SYLLABUS OVER 5 YEARS



The preparatory program (Paris and Toulouse) lasts 2 years and from the beginning, initiates students into the aerospace sector. The passion for the sector is mirrored through concrete industry orientated design and build projects. The subjects studied are mathematics, physics, aeronautical science, computer science and electronics, languages and project management.

The Engineers program lasts 3 years and allows students to specialize in their own chosen field and to individualize their courses through options and scientific majors.

3RD YEAR:

aerospace systems or vehicles.

4TH YEAR: 5 MAJORS

- Energy, Propulsion and engine innovation
- Mechanics and aircraft Structures
- Embedded systems and Telecommunications
- Mechatronic control systems
- Space, Launchers and Satellites

5TH YEAR: 3 COURSE CHOICES PROPOSED TO THE STUDENTS

- Expert-engineer course: The design of aeronautical systems (control systems or vehicle structures); Design of space systems; Management and industrial logistics
- Dual curriculum skills IPSA / MBA ISG (sales engineer)
- International curriculum: Double diploma with foreign universities

During their training the Ipsaliens spend between 9 and 11 months on compulsory approved work experience including a 6 month end of course internship, proving real professional experience right out of school.

A COLLEGE WITH A RESOLUTELY INTERNATIONAL VISION

In order to prepare its' students for the international and multicultural world that the Aerospace sector has become, IPSA has implemented a major English language training program from year 1, with immersion weeks. Teaching is 100% in English for the last two years of the course, promoting better integration of foreign students and thus increasing academic exchanges with IPSA's partner universities in other countries.

All 4th year students spend a compulsory study semester abroad and 5th year students can prepare a 'French-Foreign double diploma'. These international experiences nurture open minds and can boost the early careers of some graduates.

SOME OF OUR PARTNERS:

- Cranfield University, England, UK.
- Shenyang Aerospace University, China
- Cheng Kung National University, Taiwan
- Arizona University, USA
- Salford University, England, UK
- Heriot-Watt University, Edinburgh, Scotland, UK
- Sao Paulo University, Brazil

RESEARCH AT IPSA

At the crossroads of the industrial and academic worlds, research is one of the fundamental axes of Ipsalien pedagogy. A college for Aeronautical and Space engineers, with three research laboratories dedicated to Aerospace, IPSA puts innovation at the heart of its engineering training.

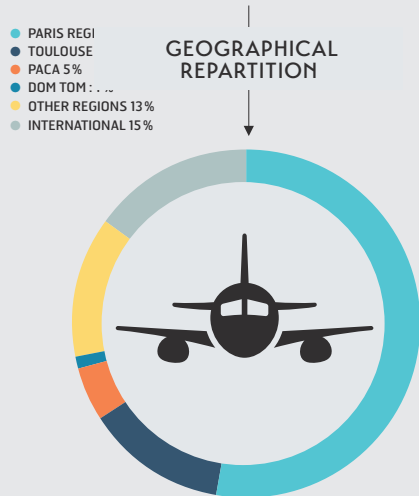
3 axes of research:

- > Mechatronics, Signals and Systems
- > Mechanics, energy and aerodynamics
- > Astronomy and astrophysics



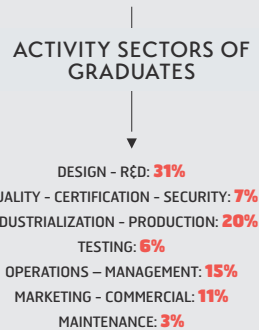
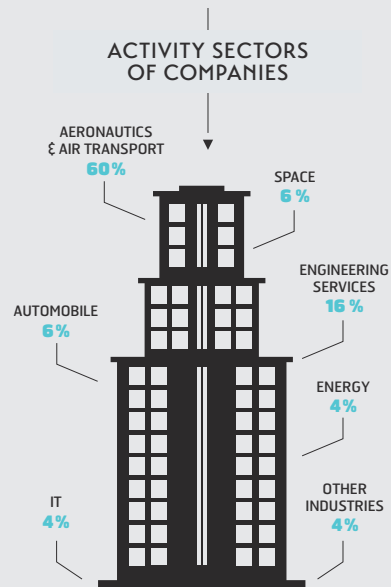
OPPORTUNITIES & CAREERS

Since its creation more than 50 years ago, IPSA has maintained strong relations with the Aerospace industry. Boosted by a network of Alumni occupying key positions in large companies in the sector, the college is recognized as a reference by professionals.



AEROSPACE, A SECTOR FOR THE FUTURE

Arriving in a sector in rapid growth, with full order books for many years, R&D projects multiplying requiring high-level skills, Ipsaliens are particularly prized for their operational, managerial and intercultural skills. Anchored in the aeronautics and space sectors their added value is demonstrated by the real professional experience acquired during the studies.



The World Wide Attitude is one of the flagship values of IPSA. Prepared to be 'open to international' by their studies, 15% of 2014 graduates started their careers abroad, notably in Asia and Europe.

ASSOCIATIVE LIFE

The passion and the dynamism of Ipsaliens materializes through student associations. Whether they are of a cultural, sporting or technical nature, the students lead innovative, sometimes ambitious projects, where technological venture is at stake. Design and launch of rockets or drones, construction of a full size flight simulator for a Boeing 777, pilot training, model airplanes, but also music, team sports, video and many other things..... Ipsalien student life is full of passion.

SOME OF OUR ASSOCIATIONS

BDE IPSA :

Animation of student life by the Students Association.

Aéro IPSA :

Design and build of experimental rockets.

IPSA Technologies :

Design and build of drones.

IPSA Motorsport:

Automobile marathon.

Evolutek:

Robots

IPSA Flight:

Construction of a flight simulator for a Boeing 777

Mach 0.1 :

Flying gliders

IPSA KART :

Karting

Bureau des Arts :

Cultural events.

