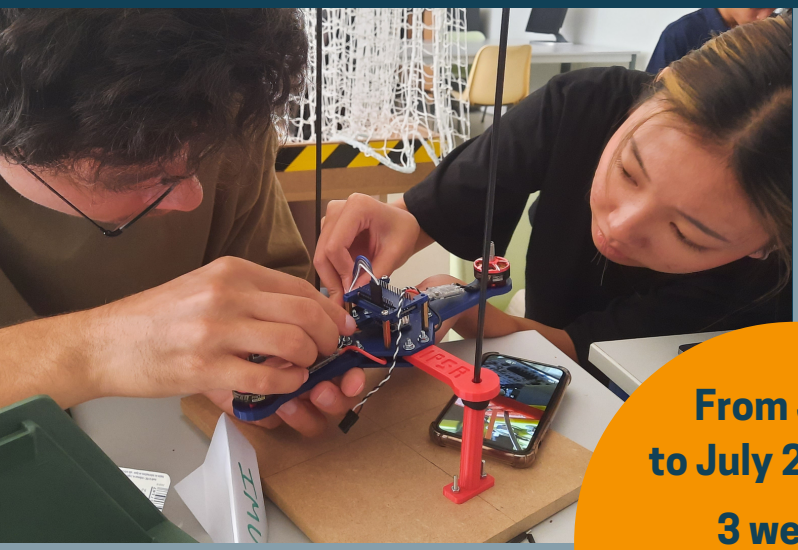
IPSA
ÉCOLE D'INGÉNIEURS DE L'AIR
DE L'ESPACE ET DE LA MOBILITÉ DURABLE

SUMMER SCHOOL 2023

IMAGINE - DEVELOP - FLY

understanding flying robots | building and controlling drones



Technical courses and experimental tests

From July 3 to July 21, 2023

3 weeks

In Paris, France

6 ECTS credits

Intercultural workshops and activities

IONIS EDUCATION GROUP

Cti Commission des titres d'ingénieur

CAMPUS FRANCE campusfrance.org

BIENVENUE EN FRANCE

European Accreditation of Engineering Programmes EUR-ACE®

IPSA Summer School

Our 3-week program aims at providing you key concepts about the flying equation system and about how to build and control drones with a robotic arm. First, with the expertise of our team, you will learn how to design a robot using one of the most used robotic environments: Robot Operating System. Second, you will build, stabilize, and make a real bicopter fly.

Agenda

Week 1: Introduction to drones

You will discover the different types of drones and all about controlling a robotic arm.

Week 2: Multi-motor systems

You will get familiar with the modeling and controlling quadrotor systems.

Week 3: From theory to practice

You will build your own drone and make it fly.

A memorable experience in Paris

The cultural fun is garanteed by the interactive visits and intercultural workshops all along the 3-week program.

Make sure you master

- Basics of python and C/C++.
- Intermediate programming skills.
- Understanding of Object Oriented Programming.
- Recommended to have 2 years of higher education in robotics.

Program fees

2 650 euros*

(including accomodation, tuition, material kit, cultural activities, lunch and coffe breaks on course days, public transport pass)

****A special discount applies to students from our partner universities.***

How to apply?

Send the following documents at international@ipsa.fr:

1. Application form;
2. Copy of passport;
3. Official transcripts from home university;
4. Proof of English language proficiency (B2 level);
5. Application fee (60 euros)*.

**Students from our partner universities are exempted from the application fee.*

Need more information?

Contact us at international@ipsa.fr

Application deadline:

May 15, 2023

Find IPSA online

ecole.ipsa | ipsa.ecole | ipsa

@IPSA | ipsaOfficiel

APPLICATION FORM

SUMMER SCHOOL 2023: IMAGINE – DEVELOP - FLY

If filled by hand, this form should be completed in black and capital letters.

STUDENT PERSONAL DATA (to be completed by the applying student)	
Family name	
First name(s)	
Gender	☐ Female ☐ Male
Date of birth (DD/MM/YYYY)	
Place of Birth	
Nationality	
Address	
Phone number (with area code)	
E-mail address	
Current degree followed	
Number of higher education study years	
Disability	☐ Yes ☐ No
If yes, please indicate your disability	

LANGUAGE COMPETENCES					
Mother tongue:					
Other languages	(Estimated) Level	You are currently studying this language		You have sufficient knowledge to follow lectures	
		Yes	No	Yes	No
English					
French					
Other:					

PREVIOUS HIGHER EDUCATION			
Year	University	Field of Study	Diploma / Degree Obtained

BRIEFLY STATE THE REASONS WHY YOU WISH TO FOLLOW THIS SUMMER PROGRAM

STUDENT'S DECLARATION

I hereby declare that the information provided above is accurate and that, if accepted, I will abide by IPSA rules and regulations.

Student' signature:

Date:

……/……/……

This form must be submitted to

international@ipsa.fr

Deadline application: **May 15, 2023**

Your application must be accompanied by the following documents:

- ☑ Previous and current transcript of records from your home university (in English);
- ☑ Photocopy of a valid passport or ID (if European);
- ☑ Proof of English proficiency (B2 level);
- ☑ A proof of payment of €60 for application expenses*, by bank transfer. These charges will not be refunded under any circumstances, even if your application is unsuccessful.

IPSA BANK DATA

Bank: **Société Générale**
Account holder: **INSTITUT POLYTECHNIQUE DES SCIENCES**
Swift code (or BIC Code): **SOGEFRPP**
IBAN: **FR76 3000 3043 8200 0200 1210 477**
Reference: **Summer School 2022 / Student name**

***Students from our partner universities are exempted from the €60 application fee.**