

# SUMMER PROGRAM 2023

**CFD Applications in  
Aeronautical Engineering**

ESTACA - PARIS SACLAY  
June 26<sup>th</sup> to July 13<sup>th</sup>

**LEARN AND PRACTICE  
MODELING TECHNIQUES  
FOR FLUID DYNAMICS**

STUDY IN ENGLISH AND DISCOVER PARIS



EXPANDING HORIZONS OF MOBILITY



# 3 WEEKS AT ESTACA PARIS-SACLAY

Learn and practice modeling techniques for fluid dynamics  
Study in English and discover Paris!



## AIM

Learn and operate CFD (Computational Fluid Dynamics) tools to understand and predict aeronautical systems performances and behavior.

## PROGRAM BENEFITS

- Work with industrially relevant computation software and methods;
- Study in a multicultural environment.

## ACQUIRED SKILLS

- Importance of fluid mechanics in aeronautical applications;
- CFD simulation;
- Understanding of the role of numerical tools in a design process.

## COURSES

- Aeronautical history (9h);
- Fluid mechanics (15h);
- Turbulences (12h);
- Aerodynamics (12h);
- Computational Fluid Dynamics (20h);
- Conferences and visits (6h).

## COURSE BREAK DOWN

- Lectures and Labwork;
- Company visits;
- Cultural visits;
- Conferences and workshops.

## PRACTICAL INFORMATION

- **Academic period:** June 26<sup>th</sup> to July 13<sup>th</sup>;
- **Recommended arrival date:** Friday 23<sup>rd</sup> June;
- **Language:** English;
- **Number of credits:** 7 ECTS;
- **Price:** 3 000€\* (including housing);
- **Required Level:** Minimum 3<sup>rd</sup> year of bachelor degree in engineering (or related fields) and basic knowledge of fluid mechanics;
- **Application deadline:** May 1<sup>st</sup> (for non-European citizens) or May 31<sup>st</sup> (for European citizens).

\*Special discount for partner institutions  
Please contact [estaca\\_incoming@estaca.fr](mailto:estaca_incoming@estaca.fr)



## For more information:

[www.estaca.fr/en/programs/summer-program-cfd.html](http://www.estaca.fr/en/programs/summer-program-cfd.html)

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