

SUMMER PROGRAM 2022

**CFD Applications in
Aeronautical Engineering**

ESTACA - PARIS SACLAY
June 27th to July 22nd

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

STUDY IN ENGLISH AND DISCOVER PARIS



EXPANDING HORIZONS OF MOBILITY



ONE MONTH 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.

SKILLS ACQUIRED

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

COURSES

(90 study hours approximately)

- Aeronautical history
- Fluid mechanics
- Turbulences
- Aerodynamics
- Computational Fluid Dynamics
- Conferences and visits

COURSE BREAK DOWN

- Lectures and Labwork;
- Company visits: for example ONERA, Safran, or others among our partners.
- Cultural visits: Bateaux-mouches and Château de Versailles;
- Conference on "Global Air Transport Market".

PRACTICAL INFORMATION

- **Academic period:** June 27th to July 22nd
- **Arrival date:** June 24th*
- Language: English
- Number of credits: 10 ECTS
- **Price (including housing) : 3 600€***
- **Required Level:** Minimum 3rd year of bachelor degree in engineering (or related fields) and basic knowledge of fluid mechanics
- **Application deadline:** May 1st (for non-European citizens) or May 31st (for European citizens)
- Alternatives to be discussed in case of travel restrictions (COVID-19 related)

*Special discount for partner institutions
Please contact international@estaca.fr



For more information:

www.estaca.fr/en/programs/summer-program-cfd.html

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