

# SUMMER PROGRAM 2018

CFD Applications in  
Aeronautical Engineering

ESTACA - PARIS SACLAY  
July 2<sup>nd</sup> to 27<sup>th</sup>

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

STUDY IN ENGLISH AND DISCOVER PARIS

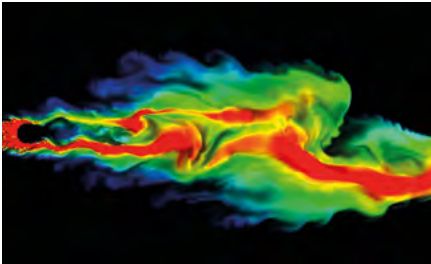
Groupe ISAE 



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

- Aeronautical history (6h)
- Fluid mechanics (15h)
- Turbulences (14h)
- Aerodynamics (20h)
- Computational Fluid Dynamics (24h)
- Conferences and visits (12h)

## COURSE BREAK DOWN

- Lectures;
- Labwork;
- Company visits : Latmos, Safran, etc.
- Cultural visits: Bâteaux-mouches and Château de Versailles
- Conference on "Global Air Transport Market"

## PRACTICAL INFORMATION

- Academic period: July 2<sup>nd</sup> to 27<sup>th</sup>
- Arrival date: June 29<sup>th</sup>
- Language: English
- Number of credits: 10 ECTS
- Price: 3 600€ (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)



## For more information:

[www.estaca.fr/en/programs/summer-program.html](http://www.estaca.fr/en/programs/summer-program.html)  
For any questions and application form please contact [international@estaca.fr](mailto:international@estaca.fr)

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