



STACA

International Program

- A graduate School in Aeronautical, Space, Automotive and Railway Engineering
- Located in Paris
- 900 Students on a five-year graduate program
- 170 Graduates Annually





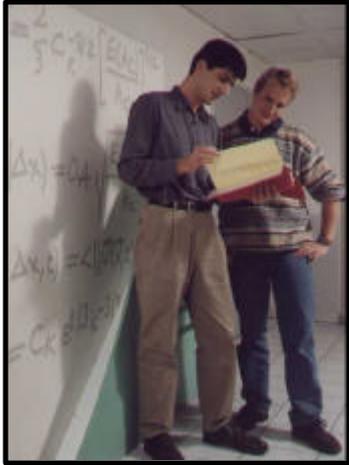
**Computer Aided Engineering and Design
Applied to Aeronautical and Automotive Sectors**



To know and operate CAE tools in order to design and dimension aeronautical and/or automotive systems and subsystems



To acquire project management technics



Language of Education → English

Academic Training Period

→ 4 Months - From February to June 2001

Admission Requirements

→ International students with a minimum of 2 to 3 years completed in an engineering degree

Admission Procedure

→ Interested students must apply no later than September 30

→ Following documents must be included : a completed Application Form, Official Transcripts, detailed Cv/Resume

Tuition Fees

→ They are waived for exchange students in the frame of signed agreements between ESTACA and the applicant's university

TRAINING SCHEDULE

Intensive French Course (optional) **50 hrs**

Mechanical
Engineering

50 hrs

+

Numerical
Simulation Tools

100 hrs

+

Project
Management

50 hrs



200 hrs

Aeronautical Application
Team Research Project



200 hrs

Automotive Application
Team Research Project

Module 1

French Language

Module 2

Mechanical Dimensioning

- Finite Element Method
- Fatigue and Damage
- Crash Systems

Module 3

CAE

- **Presentation of Engineering Processes**
- **Numerical Tools**
 - Functional Simulation **MATLAB/SIMULINK**
 - Mechanical Behaviour Simulation **ADAMS**
 - Mechanical Dimensioning **NASTRAN**
 - CAD (**CATIA**)
 - Crash Simulation **LS-DYNA 3D**

Module 4

Project Management

- Introduction
- Methods
- RMAS
- Functional Analysis
- Marketing / Strategy

Module 5

Team Research Project

In Automotive or Aeronautical field (performances, design ...)

Visits to French

Industrial Companies

SNECMA, AEROSPATIALE, PEUGEOT