

# MSC ELECTRONICS SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS ( ESECA )

A 2-years master degree at «Université de Toulouse» supported by INP-N7 and INSA two «grandes écoles» in engineering sciences.

State of the art expertise in Electronics for Embedded Systems with specific applications to the avionics and spatial industry.

## AIMS OF THE PROGRAM

Enroll top-level international students in the field of electronics.  
 Provide the most up-to-date teaching in electronics for embedded systems, in tight relations to the aeronautics industry as well as prime level research institutions.  
 Graduate students that will take part in the research activities as PhD or R&D engineers and will have an opportunity to build an international career.



### CONTACT

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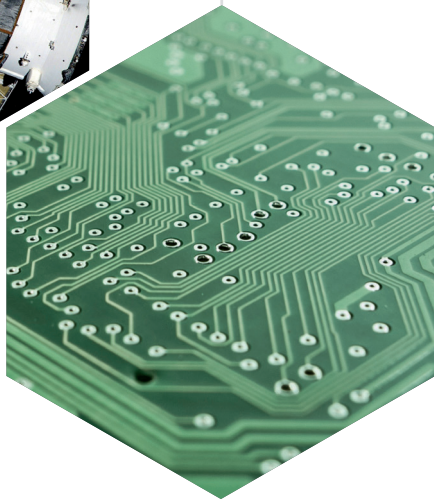
### APPLICATION

Deadline: April 31th  
 Tuitions fees: 9000€/year  
 Reduction down to 5000€/year  
 for academic partners and selected students  
[www.toulousetech.net](http://www.toulousetech.net)

## FOCUS

Masters of Science are national degrees accredited by the French ministry of higher education  
 Further studies: PhD program (3 years)  
 All MSc Degree holders are allowable to take a step forward in the academic track to get the PhD degree  
 Pre-requisite: Bachelor's degree  
 Programs are taught in English

INP - ENSEEIHT and INSA are members of the N+i network  
[www.nplusi.com](http://www.nplusi.com)



## PROGRAM CONTENT

### Embedded Electronics Design

Autonomous systems  
Optoelectronics  
Instrumentation  
Electromagnetic compatibility for integrated circuits  
Energy management

### Radio-Frequencies

RF active and passive circuits  
Antennas  
Electrodynamics

### Digital Signal and Image Processing

Telecoms for spatial applications  
Radar and remote sensing applications

**A 100h research project in a research institution**

**A 6 months final project as a trainee in a laboratory or in the industry** with minimum wages 500€/month

## JOB OPPORTUNITIES

PhD - more than 40% of the graduated students

R&D for the manufacturing industry in aeronautics, automotive, semiconductors, communications...

## RESEARCH INSTITUTIONS & INDUSTRIAL PARTNERS

All teachers are part of major research institutions that are part of the French National Scientific Research Center (CNRS):

- LAAS-CNRS
- LAPLACE
- IRIT
- or world leading industrial groups : Thales, Airbus, etc ...



Required documents:

Full transcripts, Passeport copy, Diplomas