

Advanced Mechatronics



ANNECY - France

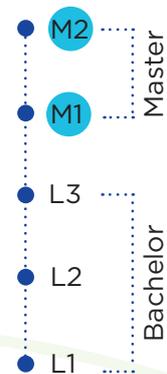


A TWO-YEAR INTERNATIONAL PROGRAM • 20 STUDENTS PER YEAR • SINCE 2017

OBJECTIVES OF THE MASTER

- The Master's students gain the skills to meet the requirements of a multidisciplinary mechatronic project and they become familiar with the requirements of a research activity through blended-learning including project-based learning.
- Academic learning consists in a core curriculum and elective courses spanning 3 orientations:
 - 1) Innovative mechatronic product design
 - 2) Autonomous wireless systems
 - 3) Monitoring and control of mechatronic systems

Level of education



Job opportunities

After having completed this program, the students are prepared for Ph.D studies. They can also work as engineers or occupy high level technical and scientific positions in research centers, in research and development departments and in specialized consulting firms.

Skills and knowledge

The main competencies developed through supervised sessions, on-line courses, projects and internship aim at:

- design and achieve a mechatronical system;
- manage a research project;
- master the skills required for research activities.

Three orientations are offered during the first year (M1): Innovative mechatronic product design, Autonomous wireless systems, Monitoring and control of mechatronic systems.

General prerequisites

- Degree equivalent to Bachelor degree (French "Licence")
- Previous studies consistent with the master program (that is, in the fields of electrical or mechanical engineering, control science, computer science or applied physics)

Project and internship

One **individual project**, one **collective research** project and one **collective project** devoted to take part in an international challenge (for example Robocup, www.robotcup.org) during each semester from S7 to S9, internship associated with a master thesis during the whole last semester (S10).





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Our program, based on blended-learning, will allow you to customize your master studies according to your background, research and professional project. You will be offered the possibility to contribute to projects of our research teams and to take part in an international challenge.



How to apply

The selection process of applications is based on the following items evidenced by supporting documents: **content and results of previous studies, CV, Cover letter, English language ability.**

DOCUMENTS TO PROVIDE

- a copy of your “baccalaureat” degree or equivalent degree corresponding to the end of secondary education, with its grade transcript,
- the copies of your degrees with the corresponding academic transcript (and rank),
- a description of the university programs you were enrolled in, up to now,
- a CV,
- a cover letter explaining your motivation for this program and your professional project,
- a copy of your identity card or passport,
- language and work certificates if any,
- any document you think useful for the evaluation of your application.

APPLICATION PROCEDURE

For information about the application procedure, please contact the International Office.

www.univ-smb.fr/broaden-your-horizons

www.univ-smb.fr/survival-kit

CONTACTS

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For more details:

<https://www.polytech.univ-smb.fr/formation/master/advanced-mechatronics.html>

International partners:

- Austria: Fachhochschule Technikum Wien
- Germany: Hochschule Kaiserslautern – University of Applied Sciences
- Italy: University of Genova
- Poland: AGH University of Science & Technology
- Romania: Technical University of Cluj-Napoca
- Spain: Universidad de Jaén
- Sweden: Dalarna University



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