



MoSIG

Master of Science in Informatics at Grenoble

International master's program fully taught in English.

This program is offered jointly by Grenoble INP – Ensimag, UGA school of engineering in Applied Mathematics and Computer Science and the Department of Computer Science, Mathematics and Applied Mathematics IM²AG, both part of Université Grenoble Alpes / France



The Master of Science in Informatics at Grenoble offers access to worldwide graduate training in computer science domains where the research community, academic and industrial, in Grenoble is particularly strong. MoSIG is a highly competitive, two-year European standard (LMD) graduate program, entirely taught in English.

<https://mosig.imag.fr>

Academic program

Each semester is composed of **30 ECTS**.

SEMESTER 1

SEPTEMBER > JANUARY

This program is composed of **foundational coursework** (approx. 3 ECTS each):

Programming language and Compiler Design, Software Engineering, Principles of Operating Systems, Algorithmic Problem Solving, Mathematics for Computer Science, Introduction to Visual Computing, Technical Writing and Speaking, Programming Project.

SEMESTER 2

FEBRUARY > MAY

This program is followed by **participation in a 4-week internship in a research group**. Students should select **24 ECTS from the following courses (3 ECTS each)**, in addition to the **research internship (6 ECTS)**.

Introduction to Modeling and Verification of Digital Systems, Operations Research, Data Base Foundations, Introduction to Distributed Systems, Human-Computer Interaction, Intelligent Systems: Reasoning and Recognition, Computer Networks Principles, 3D Graphics, Introduction to Mobile Robotics, Introduction to Cryptology, Parallel Algorithms and Programming, Fundamental Computer Science, Foundations of Data Science, Low Tech.

SEMESTER 3

SEPTEMBER > JANUARY

This program provides **specialized training in the following themes:**

- > Data science and Artificial intelligence (DSAI)
- > Distributed computing: from cloud to edge computing, embedded systems and networking (DC)
- > Human and digital world interactions: robotics, augmented and virtual reality, perception (HDWI)
- > Software and hardware components engineering ; quality engineering, models of computation (SHCE) .

Students need to select **courses worth 24 ECTS in their chosen theme (according to their initial training) and 6 ECTS of courses from a different theme.**

SEMESTER 4

FEBRUARY > JULY

The final semester is devoted to an **individual project** conducted in a company or in a research laboratory.



ADMISSIONS

Candidates must have previously completed their undergraduate studies and been awarded a Bachelor's degree in either **Science (BSc) or Engineering (BEng) in Computer Science, Computer Engineering, Informatics or Applied Mathematics, with a solid practice in programming.**

Candidates can apply either to the full program (2 years) or for the 2nd year of the program.

To be admitted directly to the second year of the program, one must have a Bachelor's Degree (4-year program), or be currently enrolled in a Master's program.

Légende ?

REQUIREMENT

English language competence B2
(see English test scores accepted on our admission webpage)

APPLICATION DEADLINE

Mid May



Contacts

mosig@ensimag.fr

masters-admission@ensimag.fr

<https://ensimag.grenoble-inp.fr/fr/formation/master>

