



With the increasing externalization of corporations and organizations in an interconnected world, security of information systems and integration of data protection technologies are now among the most critical issues. Security of Information Systems is thus an active field of research, both academically and industrially.

Within the Grenoble Alpes community, the Grenoble technopole gathers international level experts in Computer Science, Mathematics and Electronics from both Grenoble INP (Institut polytechnique de Grenoble) and UGA (Université Grenoble Alpes), working together in the field of Information Systems and Security.



Since its creation, more than 400 students have graduated the master.

Objective

Training cybersecurity experts in :

- Risk analysis and audits, certification for security evaluation
- Security of operating systems, networks, software and hardware
- Security architecture, secure and validated solutions
- Cryptology, privacy

Related research labs in Grenoble

Institut Fourier, LJK, LIG, VERIMAG, Gipsa-Lab, TIMA, LCIS and also Inria research center. Those labs federate their research in cryptology and security within the IDEX Cross disciplinary Grenoble Alpes CyberSecurity Institute, in collaboration with the CEA and the Social Sciences community.

International Master's program, fully taught in English.

English language track of the master's degree in Mathematics & Applications and Informatics.

Joint program between Grenoble INP Ensimag and Université Grenoble Alpes UFR IM²AG.





Academic Courses

Lectures (from September to February)

Common core

- Software security and secure programming (3 ects)
- Security architectures : network, system, key managements, cybersecurity of industrial IT (6 ects)
- Cryptographic engineering, protocols and security models, data privacy and applications (6 ects)
- Threat and risk analysis, IT security audit and norms (3 ects)
- Hardware and embedded systems security (6 ects)

Elective courses

- Advanced Cryptology (6 ects)
- Advanced Security (6 ects)

Master thesis (from February to September) 30 ects

All students will have to demonstrate a B2 level in english language in order to be awarded their degree.

English scores required :

TOEFL IBT 78 / TOEIC 700 / IELTS 6.0 or equivalent

Academic supervisors

Jean-Guillaume Dumas (UGA)
Marie-Laure Potet (Ensimag)
Vanessa Vitse (UGA)

Registrar's office

- Elena Leibowitch (Ensimag)
- Carine Beaujolais (UGA)

Tuition and fees

Approximately 500 Euros / Year
Note that tuition fees are highly subsidized by the French Government.

Application Deadlines

Non-European Students:

Mid-April

European students:

End of June

Contact :

m2cybersec@ensimag.fr

website :

<https://cybersecurity.imag.fr>

Admission

Students are selected and admitted to the program based on their academic records, language skills, motivation and a judgement of their ability to successfully complete the program.

The CySec master program is a one-year (M2) specialized program.

To enter the program, students are selected after successful completion of:

- MSc in Informatics or Mathematics at Grenoble (MoSIG M1, MSIAM M1, M1 Mathématiques, M1 Informatique)
- Alternatively an equivalent M1 program.
(The minimum requirement is to have earned at least the equivalent of 240 ECTS credits)

Admission webpage: <https://relint.ensimag.fr/MainEn/Admission>