



RSC

Master of Science in Networks, Systems, Cybersecurity



The RSC Master's program is a two-year (M1–M2) specialized degree jointly offered by Université Grenoble Alpes and Grenoble INP – Ensimag. It trains professionals to design, operate, and secure modern digital infrastructures.

Students develop strong technical and analytical skills in programming, operating systems, computer networks, and cybersecurity, as well as the ability to analyze real-world threats and deploy robust security solutions in professional environments. The program is delivered in a work-study (apprenticeship) format, supported by the FormaSup CFA for the organization and management of the apprenticeship framework. The curriculum combines core foundations, advanced modules, applied projects, and a final master's thesis. Graduates are prepared for engineering and expert roles in networks, systems, and cybersecurity, and the program also provides a solid basis for further research.

Objectives

This master's program trains professionals to design, operate, and secure modern digital infrastructures. Graduates develop strong technical and analytical skills to address networks, systems, and cybersecurity challenges, and learn to assess real-world threats, implement secure solutions, and operate effectively within professional and organizational environments.

Academic program

This two-year (M1-M2) master's program is delivered in a work-study (apprenticeship) format, alternating academic training with company experience and continuous skills development. Throughout the curriculum, students work on tool-based labs, realistic case studies, and team projects aligned with industry practices.

SEMESTER 1 : establishes the technical foundations needed to understand modern infrastructures: Programming, Operating Systems, Computer Networks, and Introduction to Cybersecurity.

SEMESTER 2 : strengthens analytical and implementation skills and broadens professional competencies through applied teamwork: Databases, Management, Advanced Computer Networks, and a Systems/Cybersecurity Project.

SEMESTER 3 : emphasizes advanced engineering and security practices, large-scale environments, and hands-on experimentation: Distributed Systems and Applications, Wireless Networks, Network Security, and a Systems/Cybersecurity Project.

SEMESTER 4 : consolidates learning through in-depth, practice-oriented projects and advanced training, and culminates in a defended master's thesis: Security Engineering, Systems/Cybersecurity Project, Management, and Technical Reading and Writing.



ADMISSIONS

Admission to the RSC Master at ENSIMAG is competitive. Applicants may enter in M1 with a Bachelor's degree (bac +3) or in M2 with a bac +4 (or 240 ECTS equivalent). Candidates are evaluated on academic background in computer science or related fields. For the work-study track, applicants must secure an apprenticeship contract. Applications are submitted online during the official call period. Selection is based on academic records and professional potential.

REQUIREMENT

a Bachelor's degree (equivalent to the European License) in Computer Science, Computer Engineering, or Telecommunications

APPLICATION DEADLINE

End of March



Contacts

admission-masterRIE@ensimag.fr

formation-pro.diplomante@grenoble-inp.fr

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

