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M2 Computer and Network Systems (CNS)- Systèmes en Réseau (SR)

Master's degree

Specialisation Computer Science

Enrolment type

Formation initiale

Language(s) of instruction

English

French

The Master's program Computer and Network Systems trains specialists capable of designing, deploying, managing, and optimizing complex, large-scale, high-performance networked systems. The program combines a solid scientific foundation with practical, hands-on aspects in order to address current and future challenges in systems and networks.

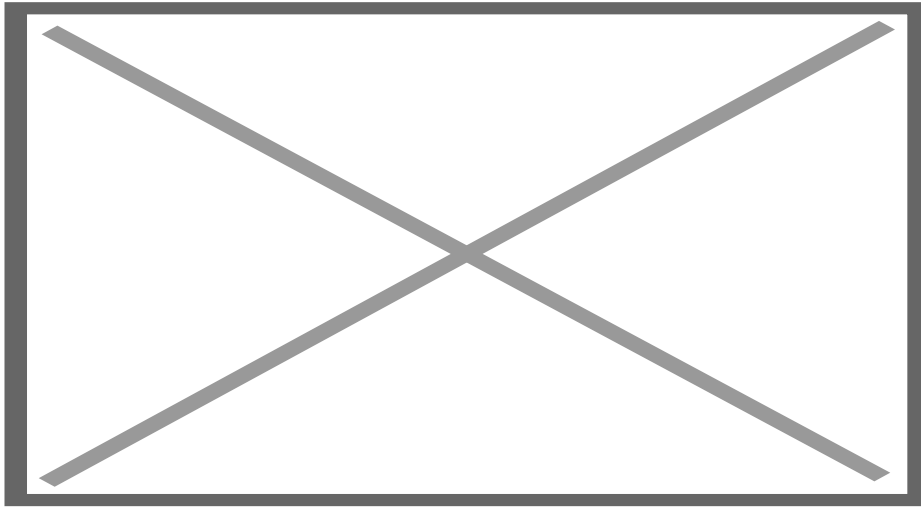
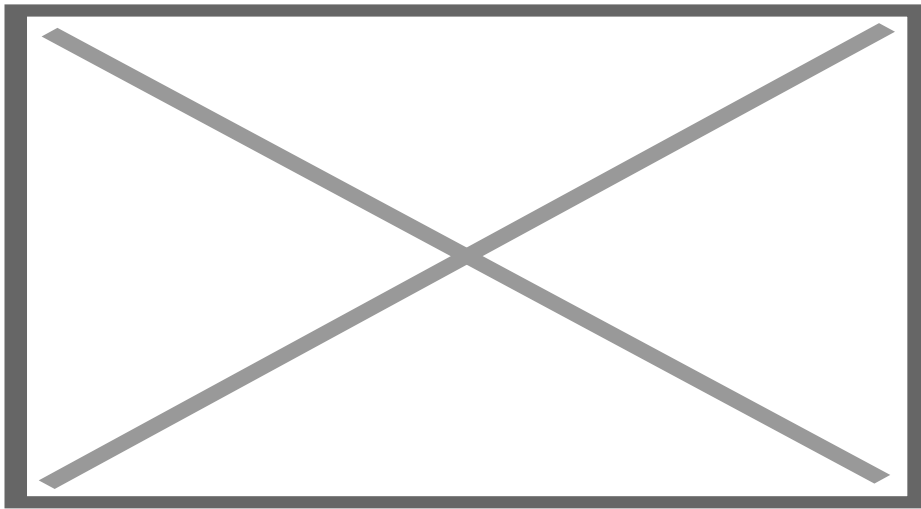
The Master's program CNS-SR aims to provide students with all the scientific foundations necessary for the design of networked systems. Emphasis is placed on the deployment, management, monitoring, and optimization of large-scale, high-performance IT infrastructures.

The courses offered in the Master's program cover a wide range of topics, from the fundamentals of networked systems and communication protocols to advanced distributed computing and cloud infrastructures. They also address resource management and orchestration, infrastructure security, deployment automation, performance optimization, real-time monitoring, as well as emerging approaches related to edge computing, the Internet of Things (IoT), and next-generation networks.

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Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

Skills

The skills targeted in the CNS-SR Master's program are structured around four main areas: (1) digital communications and computer systems; (2) architecture and services; (3) network engineering, including design, management, and security; and (4) distributed applications and multimedia.

By the end of the Master's program, students will be able to:

- Master the fundamental concepts of networked systems
- Define and formalize the functional requirements of computer systems in the form of specifications
- Apply theoretical concepts to propose suitable architectural and technical solutions
- Analyze the operation of complex computer systems

- Propose innovative solutions while justifying technical and technological choices.

Objectives

The Master's program CNS-SR prepares students for careers as network architects, systems and network administrators, and research and development engineers in the field of IT and network infrastructures. It also offers the possibility of pursuing a doctoral thesis, enabling graduates to enter scientific research in both academia and industry. Thanks to the diversity of the courses and the transversal skills acquired, students find opportunities in large companies, tech startups, and research centers alike.

Débouchés

Career prospects

After a Master's + PhD: researcher or lecturer

R&D Engineer

R&D Project Manager

Project Manager

Design engineer in the industrial sector

Academic staff

Lecturer (after a PhD)

Network architect

Project management support

IT administrators

Further Study Opportunities

PhD

PhD thesis

PhD

Calendar

Start of programme (indicative date)

04/09/2026

Admission

Capacity

Available Places

25

Target Audience and Entry Requirements

The second year of the Master's program is accessible to students who have completed the first year of the Computer and Network Systems Master (M1). It is also accessible, upon review of their application, to students holding an M1 in Computer Science, a four-year Bachelor's or a Master's in Computer Science, a foreign Master 2 in Computer Science, or an engineering degree with a strong computer science component. All applications are reviewed by the admissions committee.

Période(s) de candidature

Inception Platform

From 01/01/2026 to 15/02/2026

From 01/05/2026 to 15/06/2026

Supporting documents

Compulsory supporting documents

Rank of previous year and size of the promotion.

Copy diplomas.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Additional supporting documents

2nd letter of recommendation (compulsory for candidates who have already been enrolled in higher education in France before).

Letter of recommendation (compulsory for candidates who have already been enrolled in higher education in France before).

Referring contact information (compulsory for non-international applicants).

Certificate of English level.

Certificate of French (compulsory for non-French speakers).

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :

- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class	directed study/practical class
Analysis, Modeling et specification of systems and networks	5	Semester 1	56						
Charger le détail									
Development, Test and Validation of systems and networks	5	Semester 1	72						
Charger le détail									
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class	directed study/practical class

UEs optionnelles Systèmes Distribués

Software Defined Networks	2.5	Semester 1	18
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Subjects	ECTS	Semester	Lecture directed study	practical class	Lecture/directed study	Lecture/practical class	direct study/pr class
Charger le détail Administration et développement de systèmes pour les centres de calcul et de données	2.5	Semestre 1	18				
Charger le détail Cloud computing	2.5	Semestre 1	18				
Charger le détail Qualité de service dans les réseaux	2.5	Semestre 1	18				
Charger le détail Internet des Objets	2.5	Semestre 1	18				
Charger le détail Programmation parallèle pour le calcul à haute performance	2.5	Semestre 1	18				
Charger le détail PROG1.1 : PREUVE FORMELLE MÉCANISÉE (OUVERT AUX ÉTUDIANTS DE L'ENSIIE EN BICURSUS)	2.5	Semestre 1	18				
Charger le détail PROG1.2 : SÉMANTIQUE DES LANGAGES DE PROGRAMMATION (OUVERT AUX ÉTUDIANTS DE L'ENSIIE EN BICURSUS)	2.5	Semestre 1	18				
Charger le détail							

Subjects	ECTS	Semester	Lecture study	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
UEs optionnelles Réseaux, Sécurité et Développement Professionnel								
Réseaux Autonominque ■	2.5	Semester 1	18					
Charger le détail Sécurité des réseaux ■	2.5	Semester 1	18					
Charger le détail Sécurité des systèmes informatiques ■	2.5	Semester 1	18					
Charger le détail Séminaires d'ouverture ■	2.5	Semester 1	18					
Charger le détail Stage, emploi et communication ■	2.5	Semester 1	18					
Charger le détail PROG2.1 : ANALYSE STATIQUE DE PROGRAMMES (OUVERT AUX ÉTUDIANTS DE L'ENSIIE EN BICURSUS) ■	2.5	Semestre 1	18					
Charger le détail PROG2.2 : PROJET VÉRIFICATION DE PROGRAMMES (OUVERT AUX ÉTUDIANTS DE L'ENSIIE EN BICURSUS) ■	2.5	Semestre 1	18					
Charger le détail Introduction à l'entrepreneuriat : Créer sa start- up Deeptech	2.5	Semester 1	20					

Subjects	ECTS	Semester	Lecture study	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail								
UE libre Catalogue S1	2.5	Semestre 1						
Charger le détail								

Subjects	ECTS	Semester	Lecture study	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
Research and Development Internship and Mémoire	30	Semester 2							
Charger le détail									

Teaching Location(s)

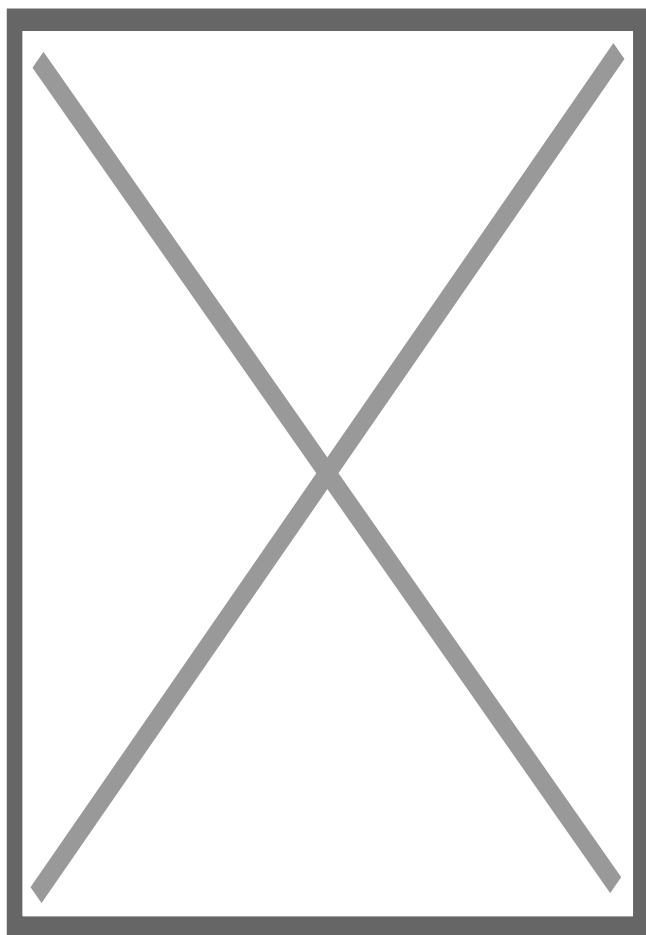
EVRY

Academic Partner(s)

Laboratoire IBISC (Informatique, Biologie Intégrative et Systèmes Complexes)

Training campus

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Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay

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RER B Le guichet

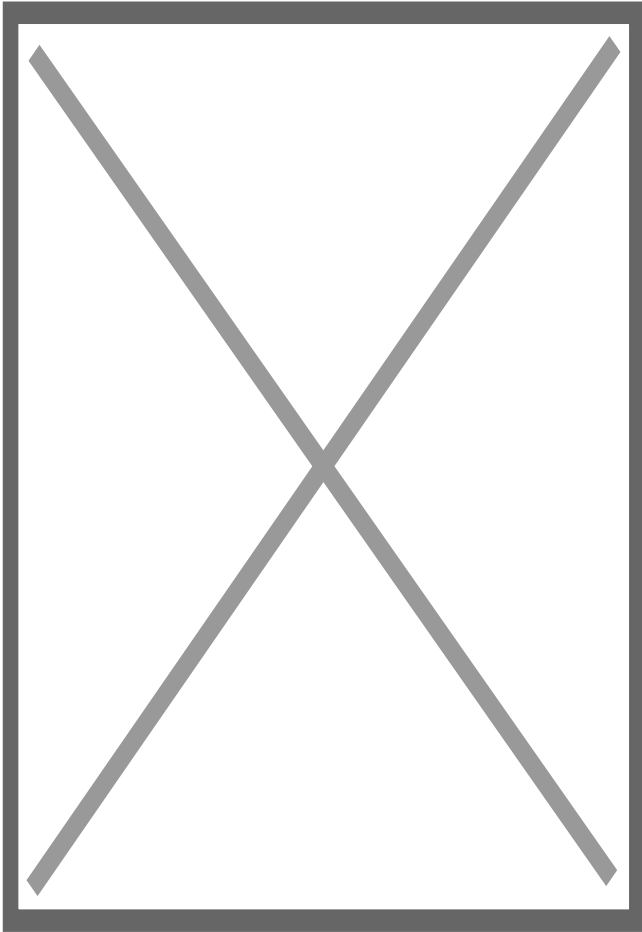
[Voir](#)

Student restaurant (CROUS)

Library

Sports facilities

Student residence



Evry

Evry
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RER D Evry Courcouronnes
[Voir](#)
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Massinissa HAMIDI**

<http://www.universite-paris-saclay.fr/formation/master/informatique/m2-computer-and-network-systems-cns-systemes-en-reseau-sr>