MSc 🇬🇧

Information Systems & Digital Sovereignty

G | MSc **MASTER OF SCIENCE**

MSc label from the Conférence des Grande Écoles

PARIS

Today, 70% of the European cloud market is dominated by non-European players. Data protection, digital sovereignty and digital trust have become strategic priorities for governments, businesses and citizens around the world.

The MSc Information Systems & Digital Sovereignty is a unique international programme designed to train experts capable of designing, governing and innovating within sovereign digital infrastructures.

Through a combination of cutting-edge technical training, applied research and international governance analysis, you will join the new generation of leaders driving cloud sovereignty, federated AI and trusted digital ecosystems.

The objectives

- Designing and evaluating sovereign digital infrastructures, integrating cloud-native and multi-cloud architectures
- Leading strategic digital projects combining security, compliance and innovation
- Implement advanced principles of cybersecurity, privacy engineering, and self-sovereign identity
- Apply and anticipate European and international regulations
- Develop and operate federated AI solutions, in accordance with the principles of trustworthy AI.
- Integrating sustainability and Green IT into the design of digital architectures
- Conducting applied research projects at the crossroads of academic excellence and industrial challenges

Focus on careers

- Sovereign Cloud Architect
- DevSecOps & Cloud Security Specialist
- Data protection and privacy specialist
- Digital compliance and sovereignty consultant
- Junior Data Spaces Expert (GAIA-X / IDS)
- Cloud & Data Sovereignty Project Manager
- Associate Researcher / R&D Analyst in Digital Sovereignty

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Year 2 (90 ECTS)

Distributed Systems and Cloud Infrastructure	ECTS
⊙ Information Systems Architecture	3
⊙ Infrastructure as Code in DevOps	4
⊙ Cloud-Native Infrastructure	4

Security and Privacy in Federated Systems	ECTS
⊙ Privacy Engineering and Self-Sovereign Identity	3
⊙ Secure Data Exchange and Policies	4
⊙ Federated Security Architecture	3

Managerial Innovation Serving Leadership	ECTS
⊙ Intercultural Leadership and Team Management	2
⊙ Communication and Innovation Management	2
⊙ Job Interview Simulation	2

Foreign Language	ECTS
⊙ French Courses	3

Sovereign Data Spaces	ECTS
⊙ Trusted Data Ecosystem Architecture	5
⊙ Federated Learning and Sovereign AI	5
⊙ Policy Enforcement and Data Traceability	3
⊙ Data Governance and Regulation	2

Today's Challenges and Future World Transformations	ECTS
⊙ Ethics and Trustworthy AI	2
⊙ Global Data Law and Sovereign Ledger	2
⊙ Sovereign High-Performance and Green Computing	2

Project Management and Innovation	ECTS
⊙ Applied Agile & Risk Management	4
⊙ Project Management Certification - CAPM by PMI	1
⊙ Dissertation Writing	1

Foreign Language	ECTS
⊙ French Courses	3

Professional immersion	ECTS
⊙ Internship	10
⊙ Dissertation	20