



Engineering school in intelligent secure systems

Bonjour et Bienvenue

École nationale supérieure en systèmes avancés et réseaux
50 rue Barthélémy de Laffemas CS 10054
26902 Valence Cedex 09 - France

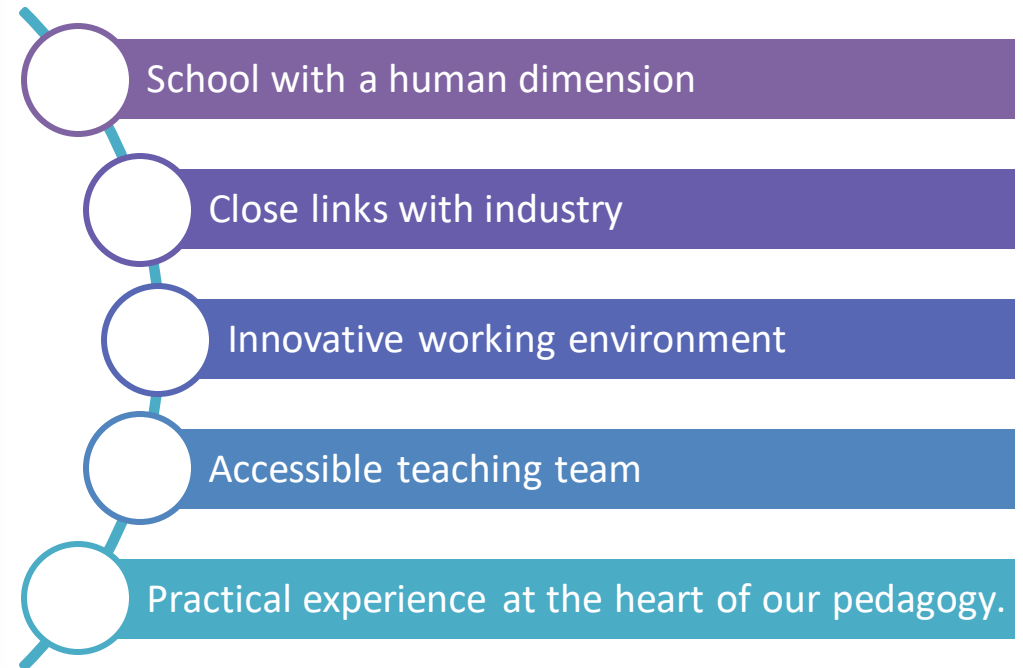


Esisar : Engineering school in intelligent secure systems

5 years school **500** students in **Valence**



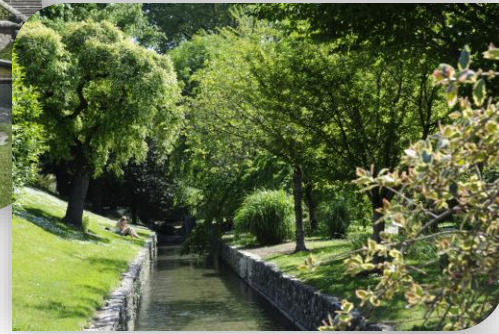
- ✓ 2 years preparatory classes
- ✓ 3 years engineering programs
- ✓ 1 international master



Valence, an attractive destination: Heritage, Culture, Nature



Jouvet park



Heritage



Canoe



Nature

Biking



Ski

Climbing



Valence, the twin city of Ijevan, in Armenia.



The Armenian community in Valence, France, is one of the largest in the country. It consists of approximately 10 000 to 12 000 Armenians.

Valence and its surrounding areas are known for having welcomed a large part of the Armenian diaspora.

The community is well integrated and continues to preserve its traditions and culture, with schools, churches, and various Armenian associations.

The twinning between Valence and Ijevan was established in 1996, strengthening the cultural and historical ties between the Armenian community of Valence and Armenia.

Engineering Programs



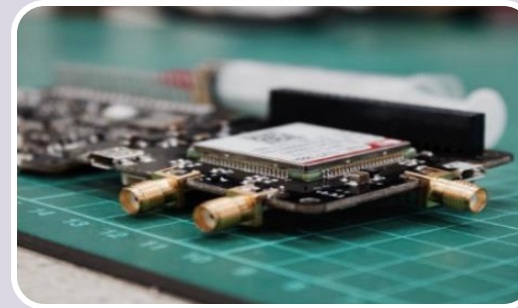
Secure Information Systems

- Software development: algorithmics, software engineering, language theory, compilation
- Networks: architecture, interconnections, services and applications
- Security: cryptography, network and systems security, software security, hardware/software security
- Operating systems: principles, architecture and administration



Secure Embedded Systems

- Algorithmics, Design, Program implementation
- Embedded development: from design to runtime
- System security: from hardware to software
- Hardware and software validation
- Embedded system design (languages, hardware architecture, FPGA design)



Communicating Embedded Electronic Systems

- Analog and embedded electronics
- Sensors and associated systems
- Digital electronics
- Hardware/software design
- Embedded computing
- Radiofrequency (RF) and communicating object



Embedded Control-Command Systems

- Servo systems, control theory, advanced control
- Identification, analysis and simulation of dynamic systems
- Implementation on real-time embedded systems
- Design/Engineering of autonomous systems
- Distributed control of large-scale systems

Industrial Projects: Innovation!

- **Pedagogical training method**
Learning by project
Validation of competences
- **Collaboration between Esisar and companies**
Respect of industrial propriety
Confidentiality engagement
- **1 semester full time**
- **Team work**
3 or 4 students for each project
- **R&D Dynamics**
Pedagogical and scientific support
Experienced project manager support
Laboratory & Platform expertise



+350

Partner
companies



+600

Achieved
projects



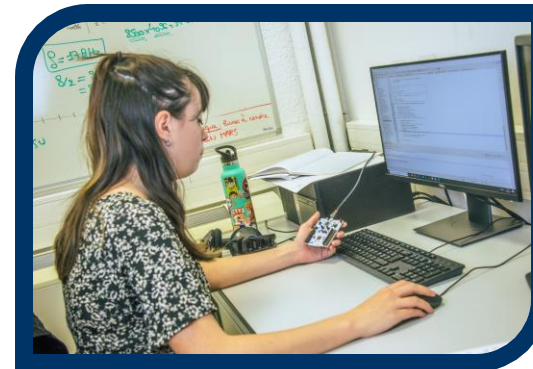
25/30

Projects
each year



+55%

Small
companies



International Master IMESS in Embedded Security Systems (1 year) - 60 ECTS



Fall semester (30 ECTS)

Mandatory courses:

- Innovation project (4 ECTS)
- Dependability and Security of computing Systems (5 ECTS)
- Verification and Test of safe and secure embedded systems (5 ECTS)
- Embedded Systems Security (5 ECTS)
- Advanced Processor Architecture and SoC Design (5 ECTS)
- French courses (1 ECTS)

Optional courses (choose 1):

- Decentralized control of complex systems (5 ECTS)
- UHF RFID Technology (5 ECTS)
- Cryptography and Secure protocols for embedded systems (5 ECTS)



Courses all
in English

Spring semester

Final study project:

- Internship in a company or a laboratory (22 weeks) 30 ECTS



1230 € for Armenien
students instead of 5000 €

CYBERSECURITY AT ESISAR

<https://www.csaw.io/>

CSAW [see-SAW] is the most comprehensive student-run cyber security event in the world, featuring 7 cyber competitions, workshops, and industry events. Final events are hosted by 5 global academic centers.

5 global regions **19** years **1420** qualification teams **7** competitions
128 finalist teams **150** career fair **3142** annual competitors

COMPETITIONS



Applied Research Competition



Embedded Security Challenge



Capture The Flag



Red Team Competition

CSAW'23

EUROPE

130 FINALISTS

14 COUNTRIES

35 UNIVERSITIES

9 FRENCH HIGH SCHOOLS



CSAW'24 : 6-9 Nov 2024



Welcome International Students

The international office with the support of the International Students & Scholars Office (ISSO) team help the international students for all their settling procedures and everyday life practical matters: accommodation, visa validation, residence permit applications, health, budget, insurances, daily life, etc.

Esisar Students associations offer international students a variety of events throughout the year.





- Spring Semester (nomination before end October) :
 - Internship in LCIS laboratory : <https://lcis.fr/>
 - Industrial project (team work) : <https://esisar.grenoble-inp.fr/en/academics/industrial-project>
- Fall Semester (nomination before 15 April)
 - Academic semester engineering degree
 - Academic semester IMESS : <https://esisar.grenoble-inp.fr/en/academics/master-program#page-presentation>

This semester can be followed by an internship in France.



- Phelma : School of engineering in Physics, Applied Physics, Electronics & Materials Science

<https://phelma.grenoble-inp.fr/en/studies/engineering-degree>

- Ense3 : Graduate School of engineering Energy, Water and Environmental sciences

<https://ense3.grenoble-inp.fr/en/study-at-ense3/exchange>

- Pagora : Graduate school of engineering in paper, print media and biomaterials

<https://pagora.grenoble-inp.fr/en/education/exchange-student-courses-in-english>

Follow Us!



www.esisar.grenoble-inp.fr



www.instagram.com/cercleesisar

www.facebook.com/cercle.esisar



www.instagram.com/grenoble_inp_esisar/



www.youtube.com/grenobleinp



www.linkedin.com/school/grenoble-inp-esisar



www.facebook.com/GrenobleINPEsisar