

Master in Computer science

Computer engineering block-release 2nd year

Presentation

The Computer Engineering programme is a vocational training course in the field of **general software engineering**. The course focuses on the mastery of computer engineering methods and tools and offers specialization in the following areas: Human-Machine Interaction, Distributed and Embedded Systems as well as Database and Information Systems.

Training exists in two forms but with the same shared lessons (except for two teaching units):

- one for the **classical student** (status of intern during his/her presence in the company)
- the other in **block-release** (for an apprenticeship contract, a contract for professionalization, and a contract to provide professional training).

Since its creation in 1984, the quality of the training has been based on a team of teachers who are experts in the fields covered: this specificity of the training has allowed it to become established in particular within the industrial fabric of Grenoble. This point greatly favours the professional integration of our students (for example, 10 block-release students out of 12 were hired on a permanent basis immediately at the end of the training in August 2015): the degree is recognized for its quality.

Registration and scholarships

The second year Master's is accessible to candidates according to their transcripts (and/or interview):

- having validated the first year of a compatible course
- or by validation of studies or acquired experience according to the conditions determined by the university or the training.

Public continuing education: You are in charge of continuing education:

- if you resume your studies after 2 years of interruption of studies,
- or if you followed a formation under the regime formation continues one of the 2 preceding years
- or if you are an employee, job seeker, self-employed.

If you do not have the diploma required to integrate the training, [you can undertake a validation of personal and professional achievements \(VAPP\)](#).

Would you like to apply and register?

Please note that the procedure differs depending on the degree, the diploma obtained, or the place of residence for foreign students.

- **You are a non-EU citizen, resident in (you live in one of these countries):**

Algeria, Argentina, Benin, Brazil, Burkina Faso, Cameroon, Chile, China, Colombia, Comoros, Congo, Egypt, Indonesia, Ivory Coast, Lebanon, Madagascar, Mali, Mauritania, Mauritius, Mexico, Morocco, Peru, Russia, Senegal, South Korea, Syria, Taiwan, Togo, Tunisia, Turkey, Vietnam.

[Candidate for studies in France](#)

For other applicants: [Apply Now](#)

Practicals informations :

- > **School** : UFR IM2AG (informatique, mathématiques et mathématiques appliquées)
- > **Duration** : 1 year
- > **Course type** : Professionalisation contract, Education in apprenticeship
- > **Location(s)** : Grenoble - University campus
- > **Contacts** :

Programme director

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Program

Master 2nd year

Semester 9

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|--|--------|-----|
| UE ECOM integration project | 6 ECTS | 63h |
| UE Principles of agile methods | 3 ECTS | 32h |
| UE Software engineering : life cycle and quality | 6 ECTS | 60h |
| UE Communication skills in English (SET) | 3 ECTS | 30h |
| 4 option (s) to choose from 11 | | |
| UE Security of information systems | 3 ECTS | 30h |
| UE Man-machine interaction : multimodality and mobility | 3 ECTS | 30h |
| UE Multimedia documents : automatic description and search | 3 ECTS | 30h |
| UE Distributed systems and applications | 3 ECTS | 30h |
| UE Communicating embedded systems for the internet of things | 3 ECTS | 30h |
| UE e-services for M2M and the internet of things | 3 ECTS | 30h |
| UE Wide scale data | 3 ECTS | 40h |
| UE Data analysis, data web and semantic web | 3 ECTS | 30h |
| UE Advanced validation techniques/ tests | 3 ECTS | 30h |

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| UE Principles and techniques of model-driven engineering | 3 ECTS | 30h |
| UE Mobile development project | 3 ECTS | 30h |

Semester 10

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| UE In-business learning | 24 ECTS | |
| UE Financial and marketing aspects | 3 ECTS | 35h |
| UE Workflow and groupware | 3 ECTS | 30h |