

Master of Science in Informatics at Grenoble

Master projects – M2

Co-directors:

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Finding your Master Project (Advice)

- Be Proactive. Choose a subject area that YOU are interested in;
- Discover the local research groups in that area (google scholar, web, publications);
- Contact local academics. Tell them what YOU want to study. Discuss with them;
- Negotiate a project with a professor or researcher;

Spring Semester: Research Project (30 ECTS)

- You can choose either professional or research internship but your subject should be approved by MoSIG directors

Have a look at <http://im2ag-pcarre.e.ujf-grenoble.fr/>

- If you choose an internship outside Grenoble or in a company you have to ask a professor to be your tutor

- Once your subject approved you have to register, by choosing the date of your defense (June or September) and filling other information

<https://framaforms.org/mosig-m2-internships-1568630484>

Without this registration your defense will not be programmed

Once you have your project and director

- The contract is between YOU, your university, and the directors Laboratory or research establishment.
- In many cases, the contract is necessary for a badge, computer account, desk, etc.
- Stipend: Minimum 3,8€/hour on the basis of 35h/week. Making it to be typically 530 €/month tax free.

Conventions for students registered at UFR IM2AG

- Download and complete an information form in English or French: (Forms on at <http://mosig.imag.fr/MainEn/Projects>)
- Send the completed form to : gest_stages.im2ag@univ-grenoble-alpes.fr
- You will receive instructions by email.
- Have your contract signed by the Laboratory or company hosting the project.
- Return the signed form to the UFRIM2AG (carole.durand@univ-grenoble-alpes.fr or sophie.urbanc@univ-grenoble-alpes.fr) for signature by the University.

Conventions for students registered at ENSIMAG

- Complete an Internship application using <https://stages.grenoble-inp.fr/etud-ensimag> using your INP login
- Wait for confirmation that the subject has been validated.
- Complete the online agreement with additional information (new fields in the form).
- Once you click on the button «Yes, I have entered all data», an email will be sent to Moufida.Derbal@grenoble-inp.fr who will generate a "convention de stage".
- Sign the form Have your contract signed by the Laboratory or company hosting the project.
- Return the contract to [Moufida](#) for signature by ENSIMAG.

The Master Project

Initial Training in Scientific or Industrial Research

The masters project is a "mini-thesis".

Essential Elements of Masters Research Project

- A clearly defined problem
- Situated within the scientific state of the art
- A proposal for one or more solutions
- Studied by an experiment, implementation or analysis and validated or evaluated by objective measurements

80% your project grade is determined by scientific or innovative quality

(Problem definition, State of the Art, Approach, Evaluation)

The Master Report

The report may be written in English or French. It must be

- Well structured: introduction, problem, state of the art, implementation, evaluation, conclusion).
- Well Written: Proper Grammar, paragraph structure, bibliography
- Clear, concise and readable

Ideal Size: 40 ± 10 pages.

Introduction: Describe context, problem, approach, and results

Body: Analysis the problem, state of the art, implementation, experiments

Conclusions: Lessons learned, compare predictions to observations.

The Jury

Jury will be composed of:

- 1) One of the Specialization directors.
- 2) Your advisors
- 3) An external expert named by your advisor (Research internships)
- 4) Your tutor (if outside Grenoble or in a company)

You must make sure that **ALL** the jury members receive an electronic copy of the report before the **DEADLINE** announced on the website

Project Presentation

Dates : last week of June, first week of September.

(21 – 23 June 2021, 30 August - 3 September 2021)

1 hour per student: **25 minute** presentation (**we will cut you off at 30 minutes**) Questions: 20 min. Deliberations: 10 min. **5 min** to install next student.

Practice your presentation!

Evaluation Criteria – see on the site

Masters Research Projects are assessed with the following 8 criteria:

1) Scientific quality – The supervisor (20% of the final mark)

- How the internship was done
- Autonomy, seriousness and involvement

2) Written Report – The external reviewer & the jury (20% of the final mark **if Research internship**):

- Text structure,
- Clarity of the discourse and quality of the writing.
- Positioning with respect to State-of-the Art
- Contributions

3) Defense – (60% (Research) - 80%(Professional) of the final mark)

- Clarity and quality of the presentation,
- Scientific level
- Ability to answer questions.

Doctoral Study

Local (informal) rule. If Masters average (classes and project) is

- > 12 - Automatic admission for a thesis.
- > 11 - Admission if supervisor defends student
- < 11 - Doctoral study is discouraged
- < 10 – Masters degree not awarded.

You are allowed to repeat ONE year of the 2 year program.

Doctoral Supervisor:

- Must have the Habilitation (HDR) or be co-supervised by an HDR
- May be in a research group
- May be in industry.
- In France, Doctoral study should be completed with 36 Months.

Doctoral Study

Doctoral study in France is for 36 months, extensible to 48 months. Grants are for 36 months.

Sources of Doctoral Funding (competition with all areas of Math-Info:

- Ministry (MESR) Grants (approx 4 - 8 for MoSIG students)
- LabEx, IDEX grants (approx 4 - 8 for MoSIG students)
- Research contracts (EU projects, ANR, Industry): 10 to 20 for MoSIG.
- Region Rhone-Alpes Doctoral Grants: 1 or 2
- CEA Doctoral Contracts: 1 or 2
- CIFRE (Industrial Research) Grants: 10 to 20 per year for MOSIG

CIFRE Grant: Student is an "CDD" employee of an Corporation. Corporation receives a government subsidy. Student must have an HDR Co-advisor. Intellectual property belongs to company.