Business (BI) & Research Internship (TER)

1st Year Master in Informatics
University of Grenoble

Guide to the module,
http://membres-lig.imag.fr/labbe/TER/

Contacts:

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Organization of the module

This module consists in either:

- a computer engineering business internship, your preferred choice if you are aiming at 2nd year of Master « Pro ».
- a computer science research internship if you are aiming at a 2nd year of Master « Research ». We call it TER for « Travaux d'Etudes et de Recherche ».

In both cases the student is responsible for finding his/her internship. .

Internship Schedule

Preparatory period.
One day per week throughout the second semester, from February to May. Any arrangement can be made during the February and April holidays, so long as this is agreed with your supervisor. During the non-intensive period the student can work from the UFR IM²AG, or by actually going to the company / laboratory, again so long as this is agreed with the supervisor. During this period the student will have achieved a good understanding of the project / problem and the related technologies / bibliography, as well as some preliminary results.

Full-time internship period.
Full-time from mid-May to mid-June. The last week is reserved for the presentations to the jury. During the intensive period the student will work in the company / laboratory offices, obtain his main results and write progressively his/her report.

Aims of the BI

- Discover the world of computer engineering;
- Practice some computer engineering activity;
- Take a step back with respect to Computer Science, viewing it from a practitioner's angle;
- Practice scientific communication.

Aims of the TER

- Discover the world of research;
- Practice some research activity;
- Take a step back with respect to Computer Science, viewing it from a theoretical angle;
- Practice scientific communication.

«Research is a human activity based on intellectual investigation and aimed at discovering, interpreting, and revising human knowledge on different aspects of the world.(...) Scientific research relies on the application of scientific methods based on scientific paradigm.»

(http://en.wikipedia.org/wiki/Research)

Looking for a BI

Visit the « Bureau des Stages » at UFR IMA (Carole.Durand@ujf-grenoble.fr) and dedicated website (http://www-ufrima.imag.fr/INTRANET/STAGES/), for job offers and advices.

Looking for a TER internship

Look at the subjects proposed on the TER projects engine (http://im2ag-pcarre.e.ujf-grenoble.fr).
If unsatisfied:

a) Ask your lecturers and other contacts you may have
b) Look up the webpages of the research laboratories (LIG / VERIMAG / LJK/ TIMA / TIMC / G-SCOP / GIPSA / ...)
c) Look at the webpages of some Hi-Tech companies...

In both cases

Send a well-targeted, motivated e-mail with your CV to the person you would like as a supervisor.

> ↯ You must start looking for an internship
> **NOW**

Formalizing the internship

1. Fill in a « Fiche de Proposition de Stage » (Download it from http://www-ufrima.imag.fr/spip.php?rubrique189) together with your supervisor and hand it to Carole Durand at the Bureau des Stages of the UFR IM²A.
2. Send an e-mail to Clement.Pernet@imag.fr and to cyril.labbe@imag.fr, with title "[M1TER] internship" containing: your name, the name of your supervisor, the name of the company/lab, the title of the placement.
3. Ask Carole Durand in case you are required to establish a "convention de stage".

> ↯ The Fiche de proposition de stage is mandatory.
> **Make sure this is done by December.**

During the internship

- Get into the habit of dropping a less than 5 lines long email every week to your supervisor -- summarizing what you have done this week and where you are heading into.
- Start by reviewing the problem you are faced with in terms of previous works / alternative technologies / available bibliography.
- Make sure that what you are asked to do requires enough programming / thinking and involves advanced technologies / sciences so that later you may convince us that you produced a fair amount of work at a level which is worthy of a Master in Informatics.

The report

- The equivalent of 10 working days to write and rewrite it, but do it as you go along!
- English is not mandatory.
- Less than 10 pages for M1 INFO.
- In PDF, in the LNCS format (will be provided). If the report includes mathematics LaTeX is to be preferred.
- A title, an abstract explaining the background of the work, your contribution...
- The core sections describe your methods, your results/contributions, your analysis.
- Conclusion stating your results compared to the initial situation, your suggestions for future work.
- Some acknowledgments.
- A detailed bibliography (as in Authors, *Title*, journal, volume, pages, (year).) with several entries for TER.
- It is not a cut and paste from existing documentation!!!!
- It targets an audience of computer scientists who are non-specialists of the particular field.

The oral presentation

- 15 minutes, 5 minutes for questions
- in English or French
- using PDF slides (generated from powerpoint or LaTeX)
- showing through a number of glimpses and hard results real work has been done
- yet remaining clear and entertaining
- containing introduction / main sections / conclusion / future work.

- it targets an audience of researchers in computer science yet non-specialists of the particular field.

The evaluation

Based upon

- your supervisor's evaluation (1/3)
- your report (1/3)
- your defense (1/3)