EPFL – Internships
Microengineering and Robotics

- General context
- Administrative procedures
The internship: Excellent Opportunity !!!

- **Students**
  - A Great incentive to ask oneself the right questions!
  - Familiarize with working life
  - Immerse into Industry practice
  - Future Hiring opportunity

- **Companies**
  - Benefit from highly qualified students
  - A new insight on current issues, innovate!
  - Evaluate future employees

- **EPFL**
  - A direct link to industry
  - A new platform to start collaborations on the research level
  - Feedback from industry to improve the education of our students
STI Internship Coordination

School of Engineering
Dean: Ali Sayed
Adjunct: Audrey Barraas

Internship Coordination
Hind Klinke
Emilie Thévoz

EPFL internship program
VP Education
Educational Affairs
Academic Service
Career center

STI Internship Coordination
Hind Klinke
Isabelle Turpin

919 STI Master students

Industry
HR, CEOs, CTO’s Engineers ...

Neuro-X (STI/SV/IC)
Section Director: Dimitri Van De Ville
Adjunct: Hind Klinke
Secretary: Emilie Thévoz

Quantum Science & Engineering (STI/SB/IC)
Section Director: Nicolas Macris
Adjunct: Hind Klinke
Secretary: Emilie Thévoz

Mechanical Engineering
Section Director: François Gallaire
Adjunct: Alain Prenselaup
Secretary: Anne Mireille Legrand
Faculty members

Electrical Engineering
Section Director: David Atienza
Adjunct: Philippe Gay-Balmaz
Secretary: Suzanne Manné
Faculty members

Materials Science and Engineering
Section Director: Fabien Sorin
Adjunct: Béatrice Marselli
Secretary: Danièle Utz
Faculty members

Microengineering
Section Director: Christophe Moser
Adjunct: Sebastian Gautsch
Secretary: Isabelle Schäfer
Faculty members

Legal and IP aspects
VP Research
Tech Transfer Office

Internship portal
IS-A Developpement staff
The Internship in industry is a mandatory step of the Master degree

Possible formats to validate this obligation

Models:  

<table>
<thead>
<tr>
<th>Models</th>
<th>STAP: Detached internship but credited with the master’s project</th>
<th>PDME: Master project in the industry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT &amp; Robotics</td>
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<td></td>
</tr>
<tr>
<td>STAP</td>
<td>Min. 8 weeks</td>
<td>After bachelor, after MA2 or MA3</td>
</tr>
<tr>
<td>PDME</td>
<td>25 weeks</td>
<td>During the Master project</td>
</tr>
</tbody>
</table>

Contact info: MT website
Mandatory Internship or Master Project in Industry

- **Internship**
  - Minimum duration of 2 month, up to 6 months
  - Immersion into industry
  - Familiarize with company processes
  - Acquire specific competences
  - Apply transversal skills
  - Evaluation report by student and industry supervisor

- **Master project in industry**
  - A research project in the company
  - Student applies the competences acquired during his master
  - Supervised by a Professor *from his section*
  - Written report and oral defense
  - **Monthly feedback to Professor**
  - 25 week duration (+1 week vacation)
When to place your internship / Master thesis?

- **Summer**: Master cycle 60 credits
- **Fall**: Internship 8 weeks, Minor/spec 30 credits
- **Spring**: Master cycle 60 credits
- **Summer**: Minor/spec 30 credits
- **Fall**: PDM in academia 17 weeks, 30 credits
- **Spring**: Internship 8 weeks, PDM in academia 17 weeks, 30 credits
- **Summer**: Master project in Industry 25 weeks, 30 credits
- **Fall**: PDM in academia in foreign Universities: 25 weeks
When to place your internship / Master thesis?

- **Summer**: Master cycle 60 credits
- **Fall**: Internship 6 months
- **Spring**: Minor/spec 30 credits
- **Summer**: PDM in academia 17 weeks 30 credits
- **Fall**: PDM in academia in foreign Universities: 25 weeks
When to place your internship / Master thesis?

- Summer: Master cycle (60 credits)
- Fall: Minor/spec (30 credits)
- Spring: Internship (6 months)
- Summer: PDM in academia (17 weeks, 30 credits)
- Fall: PDM in academia in foreign Universities: 25 weeks
When to place your internship / Master thesis?

- **Summer**: Master cycle 60 credits
- **Fall**: Minor/spec 30 credits
- **Spring**: Internship 6 months
- **Summer**: Master project in Industry 25 weeks
- **Fall**: PDM in academia in foreign Universities: 25 weeks
Important rules

Maximum duration of studies

The maximum duration of course semesters
- Maximum amount of study semesters allowed: 6
- Extended by one semester if the internship is done during a semester

The Master’s project must be successfully completed within two semesters of the successful completion of the Master’s cycle (including the industry internship). Should the Master’s project (of a duration of 25 weeks and in industry) serve to validate the engineer’s internship, the deadline is extended to three semesters.

Internship in parallel to taking courses

Performing the industry internship in parallel to taking master courses is generally not encouraged. Exceptions can be granted by the section under the following conditions:
- The student can physically follow the registered courses and attend the exam session
- The maximum amount of credits does not exceed 5 ECTS
- The company accepts that the student takes courses

Failed Master thesis in industry

Students who fail their master thesis in industry during the first attempt are asked to perform their 2\textsuperscript{nd} attempt in a lab at EPFL
Internships between bachelor and master

- If you have finished your bachelor and would like to take an interim year to do your mandatory industry internship for your master, the following academic rules and FRAC status’ apply:

**Option 1**
- Internship up to 6 months: FRAC "internship" Registered in Ba5
- Start master FRAC "present" Registered in Ma2

**Option 2**
- Internship up to 6 months: FRAC "internship" Registered in Ba5
- No master start FRAC "on leave" Semester does not count
- Start master FRAC "present"

**Option 3**
- Start master FRAC "present" Registered in Ma1
- Internship up to 6 months: FRAC "internship" Registered in Ba6

**Option 4**
- No master start for motivated reasons FRAC "on leave"
- Internship up to 6 months: FRAC "internship" Registered in Ba6
- Start 2nd master semester FRAC "present"

In option 4 the fall semester will be accounted to your master studies, except if you are doing your army or civil service.
What is considered «Industry»?

- Every company or start-up offering a workplace outside of an EPFL laboratory (EPFL’s Innovation Parc included)

- Every Research Organisation not delivering academic credits

- Affiliation of independent research labs with academic institutions can lead to a specific decision by the section
How much salary?

- There is no official regulation in Switzerland to pay a monthly salary for an internship.
- Salaries are mostly ruled by offer and demand.
- Often the salary is dependent of the company’s size and status:
  - Typical salary in large companies: ~3’000 SFr
  - Typical salary in start-ups and SMEs: 1’500 SFr
  - Typical salary in the European Union: 600 - 900 Euros
- EPFL recommends a typical monthly salary around 2’000 SFr. However, there is no obligation of the company to comply with this.

- In Case of a Master Project in Industry, remuneration can be handled more freely (no monthly salary, compensations, bonus at the end, …)
Internships done during the bachelor degree will not exempt you from the mandatory internship. Exemptions can be granted by the section in the following cases:

- Internships done after your bachelor degree
  - The internship duration must be at least 8 weeks
  - The ending should not be further than 1 year apart from your master beginning date.
  - A detailed work certificate or an evaluation report has to be presented to the section deputy.

- Industry employment at 100% occupation of at least 1 year related to the field of the future master studies but not in the context of your studies
  - A valid work certificate has to presented to the section deputy.
Your start-up as substitute to a master thesis in industry?

- A few students will be able to undertake their master projects in industry, at the EPFL Innovation Park to work for their own startup.

- Projects will be co-supervised by a mentor from the Vice Presidency for Innovation and a professor from the section.

- This opportunity will be offered to 3-4 projects per year. Students will have to go through a selection process, start by contacting pdm-eip@epfl.ch.

- More information about the program could be found here:
  - https://www.epfl.ch/innovation/startup/students/master-project-in-your-startup/
Work authorization

(not required for Master Projects without a monthly remuneration)

- The federal council allows foreign students of Swiss academic institution to perform a mandatory internship during their studies: [https://www.admin.ch/opc/fr/classified-compilation/20070993/index.html#a39](https://www.admin.ch/opc/fr/classified-compilation/20070993/index.html#a39)

- Students with Non-EU/EFTA passports require a valid **work authorization** to do their internship or Master project with monthly salary in Switzerland or EU countries.

- EU students performing a 3-6 month internship have to be simply **announced** at the cantonal office.

- It is the company’s responsibility to request this authorization at the proper working office of their canton/country ([Link](https://www.admin.ch/opc/fr/classified-compilation/20070993/index.html#a39) to obtain a mandatory internship certificate.).

- It requires up to 8 weeks to obtain this authorization from the cantonal offices.

- We recommend that students from non-EU/EFTA countries inform the companies in their motivation letter of these regulations.

Example: “As I’m a non-EU/EFTA resident, your company would be required to ask for a temporary work authorization. Please be advised that the federal council allows foreign students of Swiss academic institution to perform a mandatory internship during their studies: [https://www.admin.ch/opc/fr/classified-compilation/20070993/index.html#a39](https://www.admin.ch/opc/fr/classified-compilation/20070993/index.html#a39). As I will stay registered at EPFL during this internship, and since this internship is a mandatory part of my Master education, the delivery of this document does not fall into the quota limitation of each canton and is therefore straightforward”.

[EPFL](https://www.epfl.ch)
EPFL – Internships
Microengineering and Robotics

- Administrative procedures
How can you find an internship?

- It is the student’s responsibility to find an appropriate internship to validate his Master degree.
- No responsibility can be taken from EPFL side if no internship has been found by the student.
- The student can find an internship position by himself, but the subject needs to be approved by the section deputy.
- EPFL offers an internship portal on which students can find an alternative to their personal quest for finding an internship.
- Access to the EPFL portal is given through the student’s IS-Academia account.
Sustainable Internships

How to identify them?
Company submissions are listed on the internship portal once validated by each section. Internships with a sustainability label will be identifiable with the following logo:

Evaluation report
The evaluation process of the internship is similar to a regular internship but the student is asked to write a half-page report to comment if the sustainability goals have been reached. This report does not influence the validation of the internship for the master curriculum.
Who are we?
Engineers of tomorrow, we interest ourselves in the cooperation for a sustainable development around the world.

Contact us
Write to us at stages.idm@listes.epfl.ch

We offer you scholarships...
- That covers travel and visa costs
- For an internship
  • In the field of development
  • For a sustainable project
  • Of 8 weeks minimum

Go check our available offers on our webpage!
http://idm.epfl.ch/stages/

Every internship found through « Ingénieur.e.s du Monde » needs to be approved by your section. Please contact the section deputy as soon as you have found an opportunity.
Le Forum EPFL fête ses 40 ans !

3 – 7 Octobre 2022 au SwissTech Convention Center
EPFL Alumni network

- EPFL students have access to the Alumni network
  - Website: [https://www.epflalumni.ch/students/](https://www.epflalumni.ch/students/)
  - Pocketcampus app
Dear student, Dear doctoral student,

Garrett is a global leader in turbo technology solutions pioneering the breakthrough of new electric boosting products and automotive software to support passenger cars, commercial vehicles, and off-road equipment.

They partner with all major automotive companies helping to implement key differentiated technology offerings.

Garrett would like to invite you to catch a glimpse of their exciting high-speed activities during a dynamic presentation, featuring:

- Their demanding evolution from mechanical engineering to the electrical and software fields;
- Challenging internship offers in their engineering center in Thaon Les Vosges, located next to Nancy, in France as well as in Brno, in Czech Republic

The presentation will be held in English on Wednesday, 25 October 2022 at 12:15 in room BC 420.

Attendees are invited to stay for a networking reception afterward, with complimentary food and drinks.

Don’t miss this exciting power transfer train heading towards the future of sustainable mobility!

>> Register here <<

If you encounter problems during the registration process, please send a message to cc@epfl.ch mentioning Garrett’s Presentation.

Best regards,

The Career Center

https://www.epfl.ch/about/recruiting/career-center/
Other opportunities for finding an internship

- Personal contacts, family, friends
- Topic related agencies and organizations
- International platforms
- Company websites
- EPFL Professors, especially for master projects in Industry

Every Internship found outside the IS-A portal has to be approved by your section. Please send a short but detailed description to the section deputy as soon as you have found an opportunity.
How does the internship portal work?

- Browse through the internship offers of your Master program
- Apply for a position by uploading 2 mandatory documents:
  - CV
  - Motivation letter
- Applications are sent on a weekly basis to the companies (every Monday 14h00)
- Wait for the company to make its selection process (up to several weeks)
- If no response after 2 months, contact your internship coordinator
- You will be contacted by the company if your application was successful (Most selection processes involve an interview and several e-mail exchanges)
- You MUST accept only one offer and reject all the others within the next 3 working days.
  - No withdrawal from the accepted position!
  - Kindly notify all other companies you had privileged contact with

- Do not use the portal for personal internship search
- Apply always through the portal for mandatory internship
Some advice to prepare your application documents

- 2 important documents
  - Motivation letter
  - Curriculum vitae (CV)

The criteria for interview selection by the company is mostly based in these documents. Reference letters can be added as well. Your motivation letter should specifically address the company and the proposed subject.

- **Language**: you should use the language of the offer

- **To be avoided**:  
  - No motivation letter
  - copy-paste errors
  - Wrong addressing
Most companies would like to meet the students for an interview prior to making their final choice

- Be prepared for the interview and demonstrate a professional attitude
- Non EU/EFTA students: Inform the company about the required work authorization
- If the living allowance is mentioned in the description, do not bargain. If not mentioned, inquire for it.
- Follow up: After the interview, write a short e-mail as feedback of your interview to the company and Cc the internship coordinator.

For Master projects: Do not accept a position without having confirmed the eligibility of the project and settled the details with the academic supervisor.
Prepare your internship campaign!

EPFL proposes 5 modules of 1h45:

**This fall semester**

1. Understanding and convincing recruiters
2. The CV sections
3. The motivation letter
4. The Job interview
5. Communication and organization at work

Each course will be given in English and in French
Information and mandatory registration here: [https://epflcareer.ch/en/](https://epflcareer.ch/en/)
The internship agreement specifies the commitments and responsibilities of EPFL, the company and the internship student. This agreement **must be signed** for all engineering internships.

No other tripartite agreement involving EPFL will be signed by the section.

Alternative contract proposed by the company and signed only by the student are acceptable in some cases, but the students must carefully read and comply with the content (IP issues, confidentiality, insurances and especially non-competition clauses).

The company must accept to fill out the EPFL evaluation report at the end of the internship.
Mandatory: Register internships found on your own

- Submit a short but detailed description of your internship to your section’s deputy
- Once you have signed the tripartite internship agreement, enter your project details on the internship portal by creating a new internship proposal, and upload a pdf copy of the agreement.
Update your FRAC

In case your internship is done during an academic semester, make sure to update your FRAC according to your status:

- Semester: (choose the right one: MA1; MA2; MA3)
- Status: Internship (authorized by the section)
- Mention in the comments « Detached internship but credited with master Project (STAP) »

If you take courses in parallel to your internship, your FRAC status should be «present»
A change of residence or relocation might be necessary

Setting up a Master thesis in industry takes several weeks/months

Time consuming formalities might be required:
- Confirm an internship
- Visa, Work authorization and Residence permit (typically 4-8 weeks)
- Collection of the signatures of the internship agreement
- New validation of your passport
- ...

It is your responsibility to settle these formalities prior to the Internship beginning
During and after the internship

☐ In case of problems (accident or illness, personal problems, conflict with supervisors, ...), contact urgently the Section deputy and the STI Internships coordinator.

☐ No written report of the student is requested by EPFL (except for credited internships in EE), but can be requested by the company.

☐ To validate your internship, an evaluation form has to be filled out by the student and the supervisor in the company (sent out 2 weeks prior to ending).
# Internship evaluations

Company evaluation of the student (Years 2015-2020, 1400 STI students)

<table>
<thead>
<tr>
<th>Category</th>
<th>Performance Indicators</th>
<th>Evaluation Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Independence</td>
<td>Capacity to self-evaluate and to respond constructively to feedback from superiors</td>
<td>928 (Excellent) 442 (Sufficient) 22 (Insufficient)</td>
</tr>
<tr>
<td></td>
<td>Ability to present and defend her/his own ideas</td>
<td>725 (Excellent) 556 (Sufficient) 96 (Insufficient)</td>
</tr>
<tr>
<td></td>
<td>Ability to resolve complex problems</td>
<td>618 (Excellent) 536 (Sufficient) 85 (Insufficient)</td>
</tr>
<tr>
<td></td>
<td>Mastery of domain-specific methodologies</td>
<td>683 (Excellent) 774 (Sufficient) 83 (Insufficient)</td>
</tr>
<tr>
<td></td>
<td>Technical skills and knowledge</td>
<td>833 (Excellent) 618 (Sufficient) 101 (Insufficient)</td>
</tr>
</tbody>
</table>

| Communication                                                             | Written communication (structure, clarity, coherence of reasoning)                    | 607 (Excellent) 623 (Sufficient) 105 (Insufficient) |
|                                                                          | Oral communication (clarity, reasoning, self-confidence)                              | 621 (Excellent) 626 (Sufficient) 142 (Insufficient) |
|                                                                          | Quality of the work delivered                                                        | 853 (Excellent) 484 (Sufficient) 495 (Insufficient) |

| Integration in the professional world                                     | Capacity to work in teams                                                             | 928 (Excellent) 368 (Sufficient) 77 (Insufficient) |
|                                                                          | Integration in the professional world                                                 | 1052 (Excellent) 279 (Sufficient) 43 (Insufficient) |

| Planning and management of work tasks                                    | Planning, monitoring of activities, and management of the work performed               | 696 (Excellent) 560 (Sufficient) 99 (Insufficient) |
|                                                                          | Evaluation of resources required                                                       | 537 (Excellent) 636 (Sufficient) 184 (Insufficient) |
|                                                                          | Definition of work objectives and management of priorities                            | 624 (Excellent) 642 (Sufficient) 101 (Insufficient) |

| Application of scientific and technical knowledge                        | Ability to resolve complex problems                                                   | 683 (Excellent) 774 (Sufficient) 83 (Insufficient) |
|                                                                          | Technical skills and knowledge                                                        | 833 (Excellent) 618 (Sufficient) 101 (Insufficient) |
Mandatory Steps for a 2-6 month internship

- Find an internship position and in case you have found it by yourself, without using the IS-A portal, have the subject validated by your section deputy.
- Inform the STI coordinator that you have found your internship.
- Cancel all ongoing applications by gently notifying the companies. This step is extremely important to keep a good relationship with future employers.
- Transmit EPFL internship agreement to the employer and have it filled out and signed by the employer and the section deputy.
- Transmit a copy of the agreement to the section secretariat.
- If you are a non-swiss/EU citizen, ask the company to request a work authorization for the duration of the internship. More information here. (Link to obtain a mandatory internship certificate.)
- Once all the details of your internship have been settled, enter or edit the details of your internship on the IS-A internship portal. Upload a copy of the signed internship agreement.
- If your internship takes place during an academic semester, make sure to update your FRAC.
- At the end of the internship, fill out the evaluation report that will be sent to you by e-mail. The evaluation procedure starts 2 weeks prior to the official ending of the internship. Both the student and the supervisor will fill out an evaluation report.
Best practice to set up a master thesis in industry

- Companies get in touch with research labs to propose master thesis topics
- Companies can hire students for internship proposals and accept the format change to master thesis projects without involving a Professor
- Students contact professors of their section to ask for existing industrial projects
- Students apply for internships on the IS-A portal and have it validated as master thesis projects by the company without involving the supervising professor
- Professors and teachers propose master thesis projects with known partner companies
- Professors and teachers evaluate the academic content of proposals from companies before accepting it as master thesis projects
- Professors and teachers evaluate the academic content of student proposals without interacting with the host company
Ideal Scenario for Master Projects in industry

Company has an idea for a master thesis project

Company discusses the project with a Professor

Company submits the proposal on the EPFL portal

Student applies for the project through the portal and gets accepted by the company

Project starts under co-supervision by company and professor
### Master thesis in industry – offers on the internship portal

<table>
<thead>
<tr>
<th>Action</th>
<th>Stage</th>
<th>Entreprise mère</th>
<th>Localisation du stage</th>
<th>Févr-Sept (P1)</th>
<th>Juil-Fév (P2)</th>
<th>Juil-Sept (P3)</th>
<th>N° du stage</th>
<th>Format</th>
<th>Inscrits</th>
<th>Places</th>
<th>Prof</th>
<th>Date de création du stage</th>
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<tbody>
<tr>
<td>Amélioration qualité image satellite par contrôle fin de la ligne de visée</td>
<td>Thales Alenia Space</td>
<td>Cannes, France</td>
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<td>Experimental Physics Internship</td>
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<td>Zurich</td>
<td>✔</td>
<td>18972</td>
<td>PDM ou Stage</td>
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<td>1</td>
<td>à trouver (si PDM)</td>
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<td>Yverdon-les-Bains</td>
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<td>Salzach (SO)</td>
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<td>HUG Genève</td>
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<td>Prof. Thiran Jean-Philippe</td>
<td>12.09.2017</td>
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<tr>
<td>Various internship positions in Motion analysis Startup for applications in Sports, Health and Gaming</td>
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<td>Renens</td>
<td>✔</td>
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<td>Basel</td>
<td>✔</td>
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<td>PDM ou Stage</td>
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<td>à trouver (si PDM)</td>
<td>11.09.2017</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Master thesis in industry, some advice for students

- Give priority to Master thesis proposals from laboratories of your section and proposals posted on the IS-A portal with confirmed academic supervisor.

If you can’t find a suitable topic this way, **consider doing an internship to validate your industry immersion.** If this is not an option, then proceed like this:

- Contact potential academic supervisors to inform them on your intentions.
- Apply for positions and inform companies on your objective to do a master thesis (in motivation letter, during e-mails exchanges and interviews, …)
- Refer to the following webpage to inform the company.
- Organize a meeting between the academic supervisor and the company to discuss the content and workplan of the project and settle administrative issues. Suggest the signature of the EPFL master thesis agreement (to settle IP and confidentiality).
- Insure a coordinated supervision and regular meetings between the company and the teacher during the project.
The master thesis agreement (access for teachers only) specifies the commitments and responsibilities of the supervising teacher, the company and the student. This agreement can be signed upon request of the teacher or the company.

It defines IP and confidentiality aspects for any master thesis in industry without existing collaborations.

It allows the academic supervisor to have access to the results of your work without having to sign an NDA.

As it is not mandatory, amendments and changes requested by companies won’t be accepted by the internship coordination or the legal department of EPFL.
Mandatory Steps for a Master project in Industry

- Find a master project in industry by contacting the professors of your section.
- A master subject can also be found through the IS-A Internship portal. In this case, it is mandatory to find a professor willing to supervise you before you accept the offer from the company. Make sure to comply with the following directions: [Coordinated Master Thesis in Industry](#)
- **Official starting dates** for master projects are determined at a school level. Other starting dates can be obtained on special request to your section.
- All administrative details of your master project in industry have to be settled between the employer and the professor supervising your work. A special [Master project agreement](#) (link only accessible to Professors) can be signed on request by the supervising professor or the partner company.
- Once all the details of your Master project have been settled, register your project in your study plan.
- Update your FRAC

ℹ️ General information about Master’s Projects
EPFL internships on the web

https://sti.epfl.ch/research/institutes/iem/procedure-for-students/

EPFL webpage:
Important remarks

☐ As an EPFL student doing an internship in industry, you act as an EPFL Ambassador. Thanks to your work and positive attitude, you will leave an important impression in the company.

☐ This aspect is not only important for your future professional career, but also for the EPFL internship program which will benefit from this lasting impression.
Information and contacts

- For further information, please visit the internship page of your section:
  https://sti.epfl.ch/research/institutes/imt/internships/procedure-for-students/

- EPFL webpage:

- Depending on your inquiry, you can contact the following persons:

  - Sebastian Gautsch
    SMT
    Adjunct to the section director

  - Hind Klinke
    STI
    Internship Coordinator

  - Isabelle Schafer
    SMT
    Administration

  - Isabelle Turpin
    STI-DO
    Administration
Questions?

Thank you for your attention
And best of success for your internship campaign!

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