

The background of the slide is a close-up, high-angle photograph of a blue printed circuit board (PCB). It features numerous gold-colored surface-mount components, including integrated circuits and resistors, connected by intricate copper traces. The lighting creates a sense of depth and highlights the metallic textures.

EPFL – Internships Mechanical Engineering

Valérie Berger
STI internship
coordinator

- General context
- Administrative procedures

November 2024

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 :



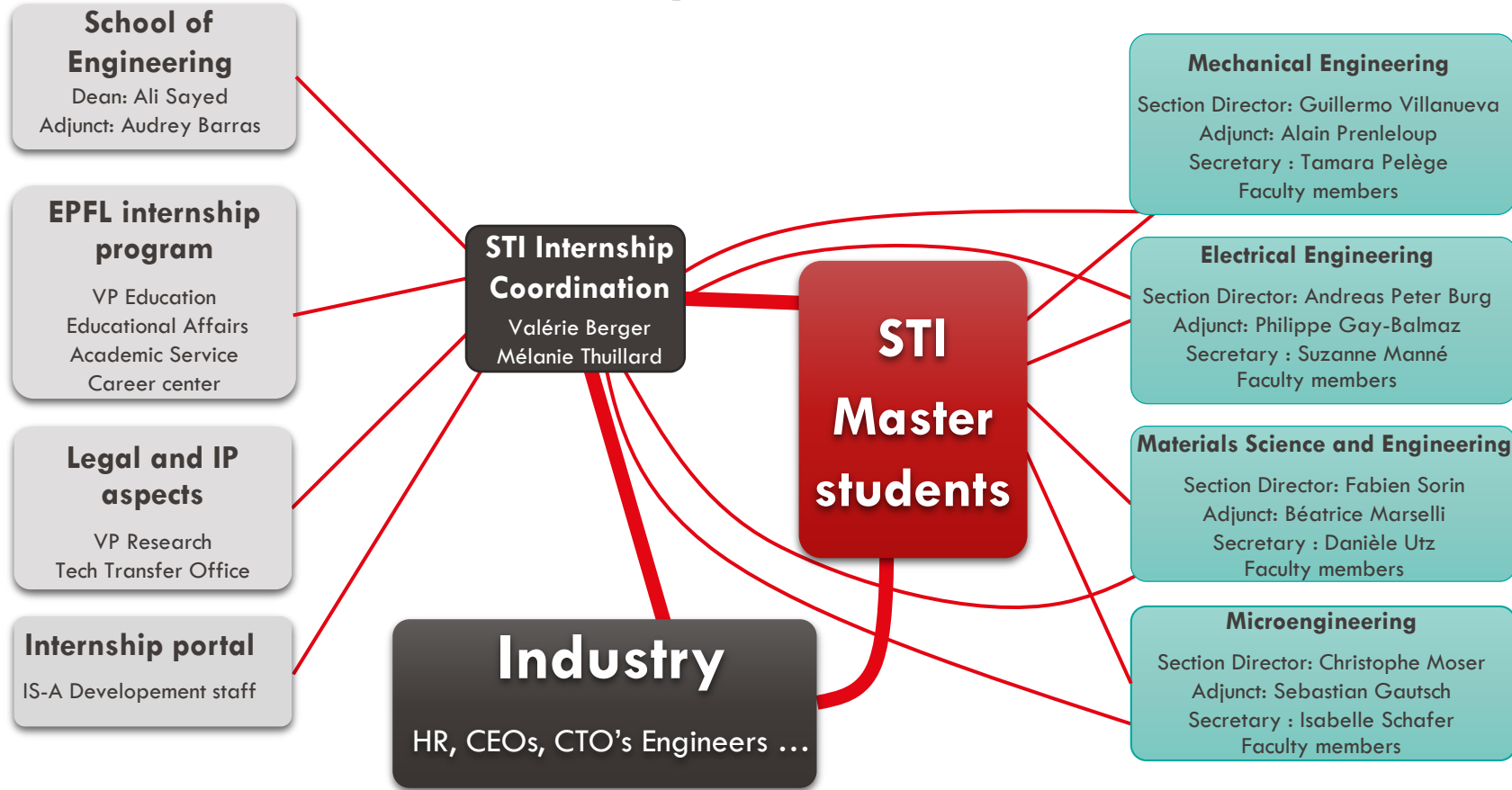
- ✓ Benefit from highly qualified students
- ✓ A new insight on current issues, innovate !
- ✓ Evaluate futur employees

- EPFL :



- ✓ A direct link to industry
- ✓ A platform to start collaboration on the research level
- ✓ Feedback from industry to improve the education of our students

STI Internship Coordination



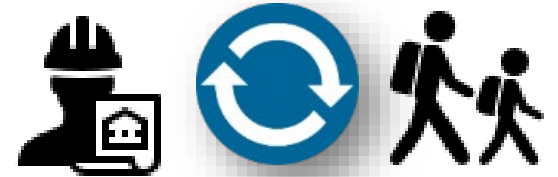
- ✓ The Internship in industry is a mandatory step of the Master degree
- ✓ Possible formats to validate this obligation

Models: **STAP**: Detached internship but credited with the master's project
 PDME: Master project in the industry

	Models	Duration	Periods
Mechanical Engineering	STAP	Min. 8 weeks	After bachelor, after MA2 or MA3
	PDME	25 weeks	During the Master project

■ Internship

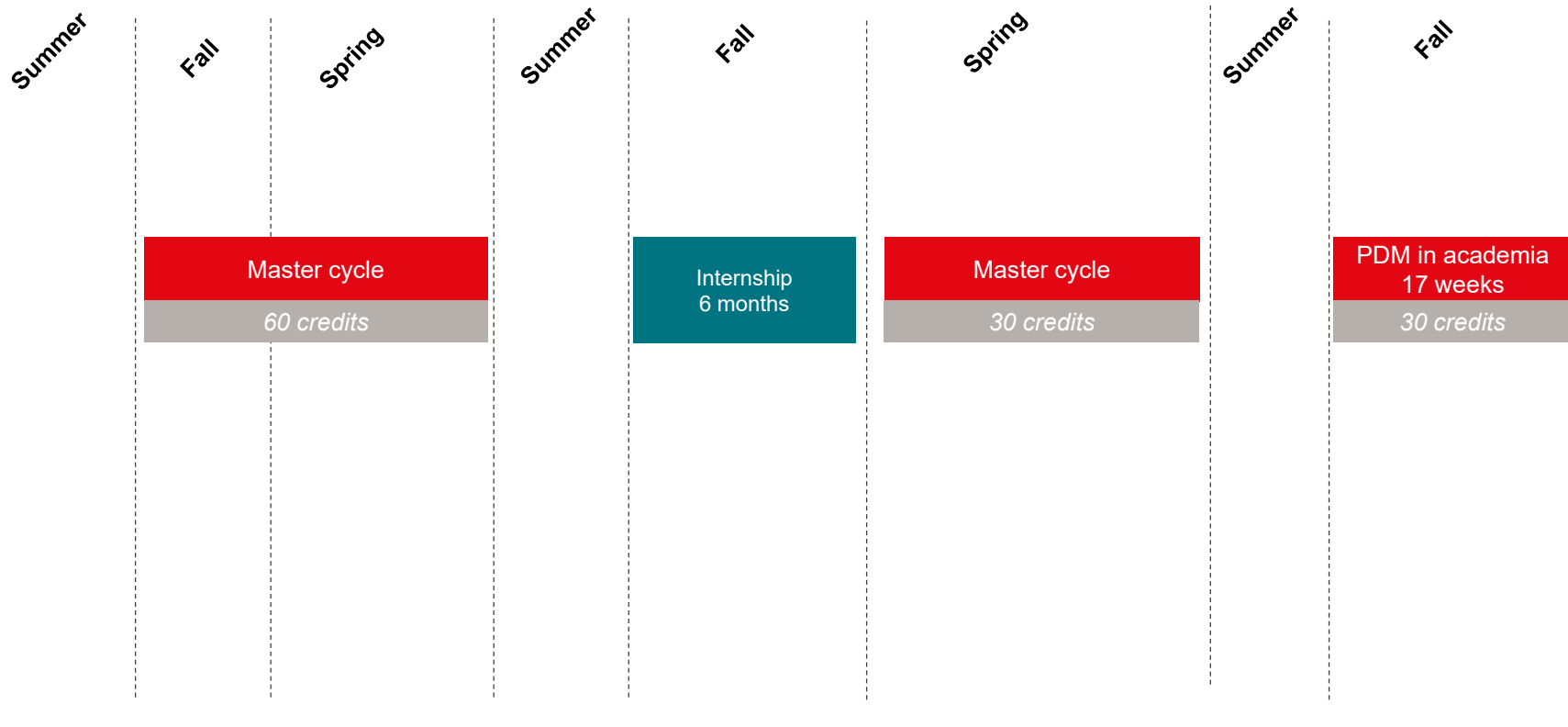
- ✓ Minimum duration of 2 months, up to 6 months
- ✓ Immersion into industry
- ✓ Familiarize with company processes
- ✓ Acquire specific competences
- ✓ Apply transversal skills
- ✓ Evaluation report by student and industry supervisor



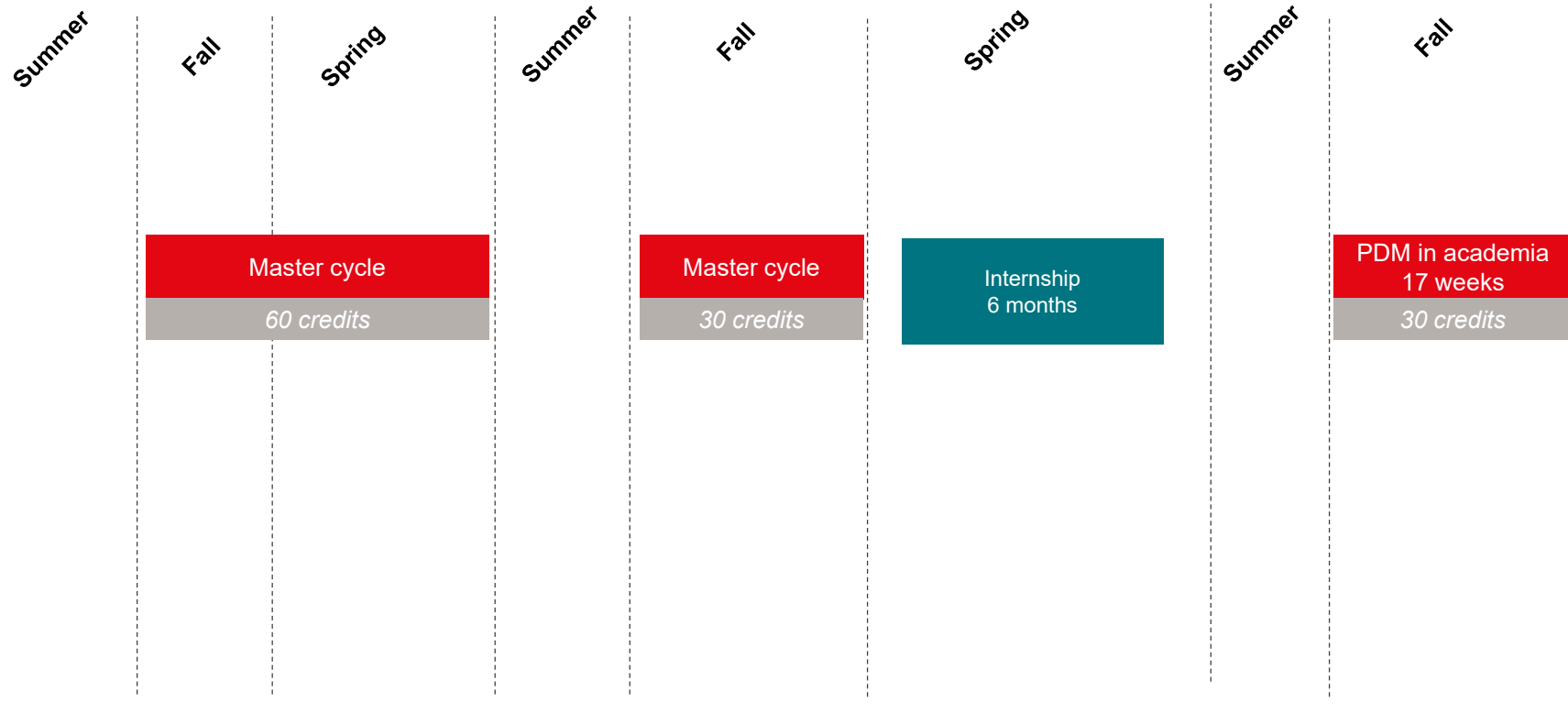
■ Master project in industry

- ✓ A research project in the company
- ✓ Student applies the competences acquired during the master
- ✓ Supervised by a Professor **from his/her section**
- ✓ Written report and oral defense
- ✓ **Regular feedback to Professor**
- ✓ 25 week duration (+1 week vacation)

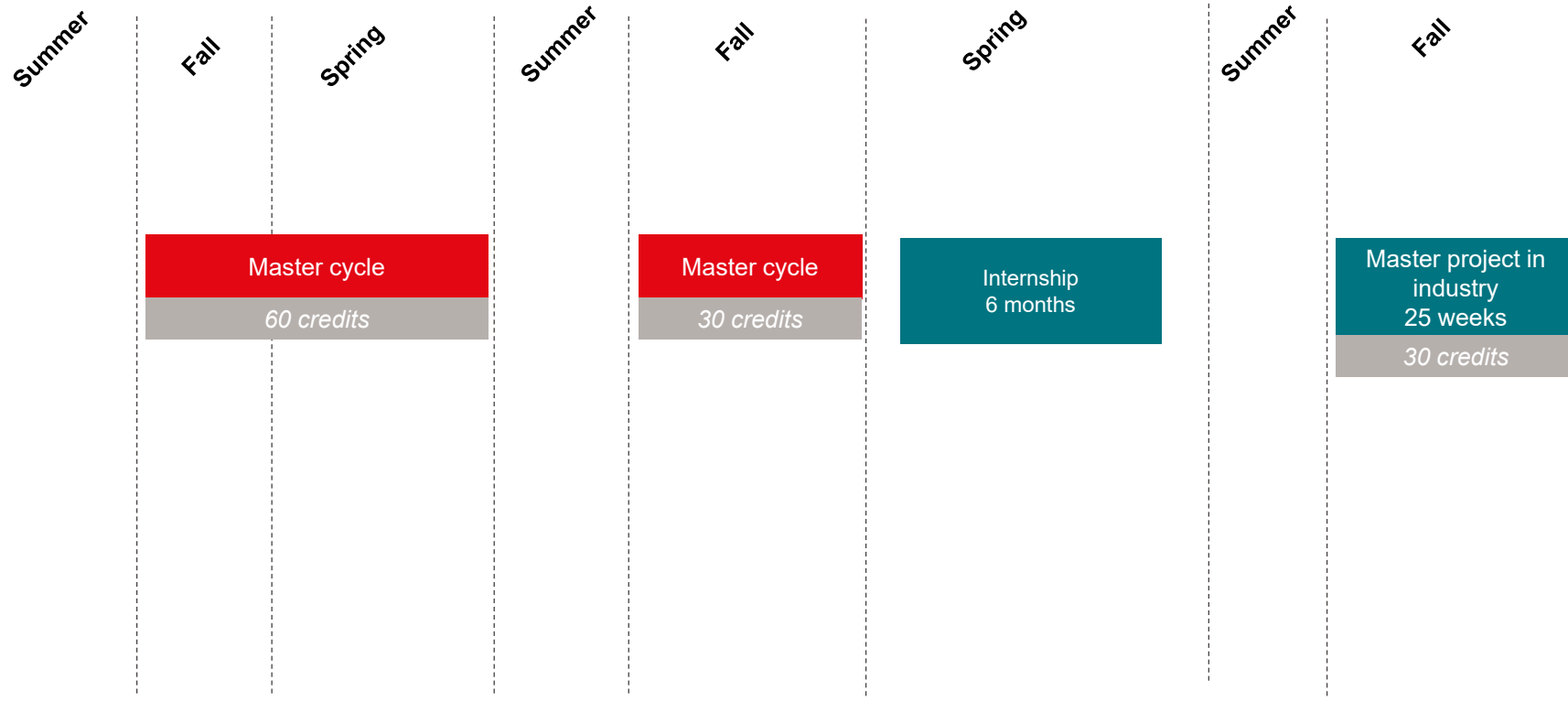




■ PDM in academia in foreign Universities: 25 weeks



■ PDM in academia in foreign Universities: 25 weeks



■ PDM in academia in foreign Universities: 25 weeks

■ **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. 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.

■ **Failed Master thesis in industry**

Students who fail their master thesis in industry during the first attempt are asked to perform their 2nd attempt in a lab at EPFL

What is considered «Industry»?

- Every company or start-up offering a workplace outside of an EPFL laboratory and outside of a university
- Some Research Organisation not delivering academic credits can be accepted by the section



- 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
 - 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, ...)

Some recommendations for an internship abroad :

<https://www.epfl.ch/campus/security-safety/en/security/travels-abroad/plan/>

EPFL About Education Research Innovation Schools Campus Q

Browse > Campus > Health, safety and prevention > Security > Risks related to business and educational travel > Plan your trip

Plan your trip

- During your trip
- Emergency assistance while abroad
- Using our travel assistance program
- Travel risk map
- International SOS

Plan your trip

(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/classifiedcompilation/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](#) 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>. 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 – Internships Mechanical Engineering

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STI internship
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- It is the student's responsibility to find an appropriate internship to validate his/her 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 Mr. Sebastien Soubielle
- 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



■ 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.

		Sustainability Engineering Internship	18.10.2024	Logitech Europe SA	Lausanne	
		Leak testing process redesign	18.10.2024	Conextivity Group / Fischer Connectors	St-Prex	
		Data Science Intern	17.10.2024	Dyneo Technologies SA	Geneva	
		Data Science Intern	17.10.2024	Dyneo Technologies SA	Geneva	
		Trading Intern	17.10.2024	Garda Capital Partners sàrl	Zug	
		Stage au bureau d'études du Grand Théâtre de Genève	16.10.2024	Grand Théâtre de Genève	Genève	
		R&D INTERNSHIP IN AGRIVOLTAICS: DATA ACQUISITION, ANALYSIS AND MODELING	16.10.2024	Insolight	Renens	

<https://forum-epfl.ch/2024/en/>



07 - 11 Oct 2024
SwissTech Convention Center

The largest recruitment fair by students in Europe

42nd Edition

SwissTech Convention Center

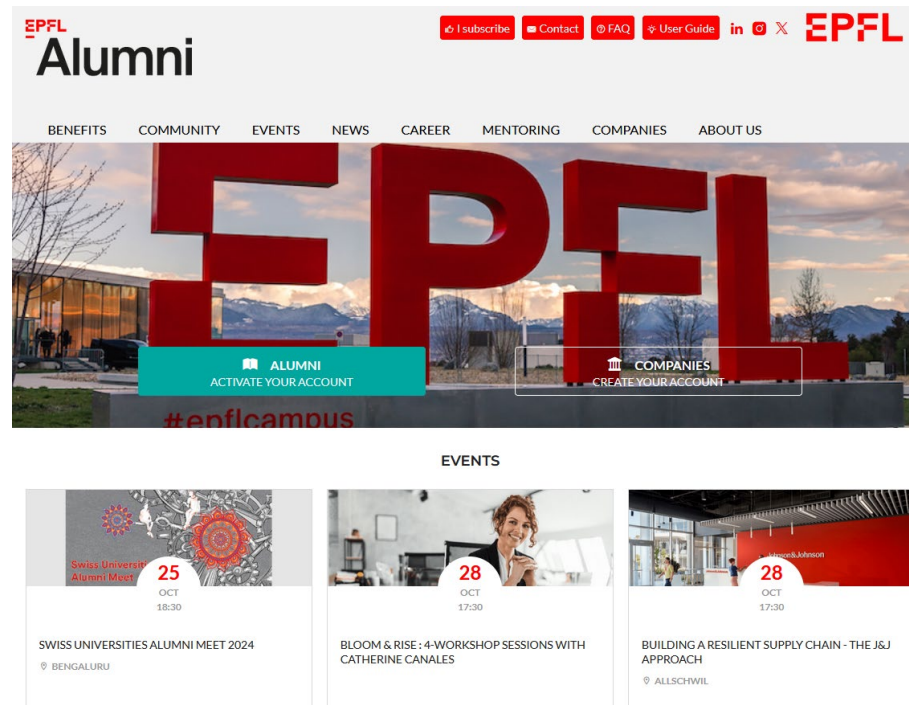
07 - 11 Oct 2024

Discover the program

EPFL students have access to the Alumni network

Website: <https://www.epflalumni.ch/students/>

Pocketcampus app



- Personal contacts, family, friends
- Linked'In
- Topic related agencies and organizations



- 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.

Every Internship found outside the IS-A portal has to be approved by your section.

(Mr. Sébastien Soubielle)

Mechanical engineering students are asked to fill out the «**demande de validation d'un stage hors du portail ISA**» form to validate internships found outside the IS-A portal.

The form can be found at

<https://sti.epfl.ch/sgm/engineering-internship/>

EPFL

Section de Génie Mécanique
Secrétariat

**Demande de validation d'un stage hors du portail ISA /
Application for validation of an internship outside the ISA
portal**

(Le formulaire doit être renvoyé secrétariat de la section dûment complété et signé avant le début du stage / This form should be sent to the section secretariat duly completed and signed by all the parties before the internship starts)

Stage en entreprise / Internship
Entreprise / company

Descriptif de l'entreprise / Company description

Site web / website

Pays

Cahier des charges de l'étudiant / Students tasks

Etudiant concerné / Student concerned
Nom, prénom / Name, first name

Date

Signature

SCIPER

Semestre actuel
☐ MA1 ☐ MA2
☐ MA3 ☐ MA4

Info
☐ 90 ECTS déjà complétés / 90 ECTS already completed
☐ Semestre d'automne / Fall ☐ semestre printemps / Spring

Adjoint de la section de l'étudiant / Deputy of student's section
Par sa signature, l'adjoint confirme la validité du stage proposé par l'étudiant / By his signature, the deputy confirms that the internship proposed by the student is valid.

Nom, prénom / Name, first name

Date

Signature

Remarque / Remark

Dans le présent document, le genre masculin est utilisé au sens neutre et désigne les femmes autant que les hommes.

■ École polytechnique fédérale de Lausanne

Secrétariat SGM
EPFL SGM-GE
Station 9
CH - 1015 Lausanne

ME B2 374
+41 21 693 29 47
sgm@epfl.ch

- 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:
 - ✓ The company if the contact is visible
 - ✓ Your internship coordinator if not
- 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

- **2 important documents**

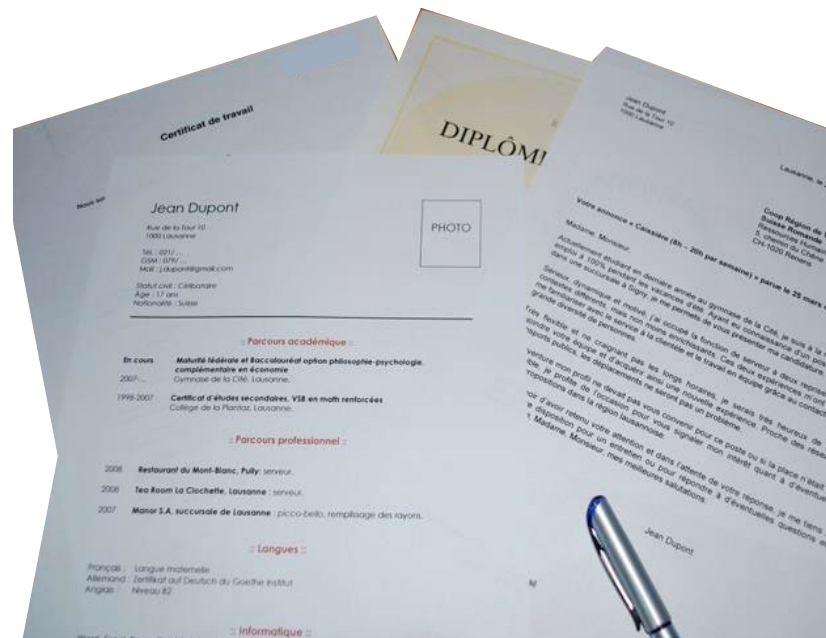
- ✓ Motivation letter
- ✓ Curriculum vitae (CV)

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.
- For Master projects: Do not accept a position without having confirmed the eligibility of the project and settled the details with the academic supervisor.



EPFL proposes several modules of 1h45:

- Comprendre le recruteur / Understanding recruiters
- Les rubriques d'un CV efficace / Crafting an effective CV
- How to leverage the Alumni network to find an internship or a job ? (eng only)
- La lettre de motivation qui permet de faire la différence / crafting a standout letter of motivation
- Les clés de l'entretien d'embauche / Mastering the job interview
- Influencing and convincing (eng only)
- 10+ successful techniques for communication and organization at work

Information and mandatory registration here: <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.

Engineering Internship Agreement

Engineering Internship Agreement

The present agreement is entered into by:

The Host Company
(*company and address*)

represented by

(*name and title of representative*)

(hereinafter referred to as « Host Company »)

AND

L'École Polytechnique Fédérale de Lausanne, 1015 Lausanne (EPFL)

represented by EPFL's representative:

(*name, surname*)

(hereinafter referred to as "EPFL Representative")

AND

The student

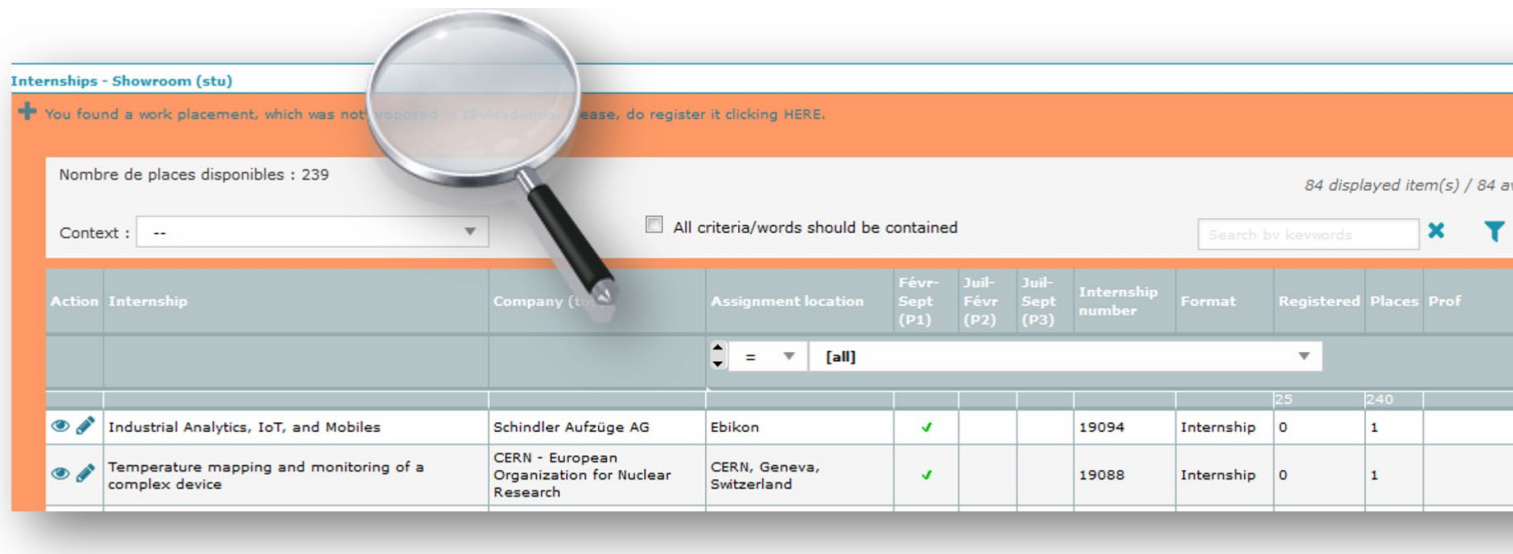
(*name, surname*)

(*address*)

enrolled for the Master . Year .

(hereinafter referred to as « Student »)

- Submit the internship validation form to Mr. Sébastien Soubielle
- 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 fully signed agreement.



Internships - Showroom (stu)

+ You found a work placement, which was not proposed in IS-Academia. Please, do register it clicking [HERE](#).

Nombre de places disponibles : 239

Context : --

☐ All criteria/words should be contained

84 displayed item(s) / 84 av

Search by keywords

Action	Internship	Company (to)	Assignment location	Févr-Sept (P1)	Juil-Févr (P2)	Juil-Sept (P3)	Internship number	Format	Registered	Places	Prof
									25	240	
	Industrial Analytics, IoT, and Mobiles	Schindler Aufzüge AG	Ebikon	✓			19094	Internship	0	1	
	Temperature mapping and monitoring of a complex device	CERN - European Organization for Nuclear Research	CERN, Geneva, Switzerland	✓			19088	Internship	0	1	

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

- In case of problems (accident or illness, personal problems, conflict with supervisors, ...), contact urgently the STI Internships coordinator.
- No written report of the student is requested by EPFL, 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 automatically 2 weeks prior to ending).



✓ Application of scientific and technical knowledge

✓ Planning and management of work tasks

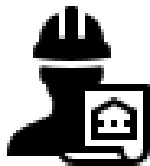
✓ Integration in the professional world

✓ Communication

✓ Independence

	E	G	S	I	N	Comments
Application of scientific and technical knowledge						
Technical skills and knowledge						
Ability to resolve complex problems						
Mastery of domain-specific methodologies						
Planning and management of work tasks						
Definition of work objectives and management of priorities						
Evaluation of resources required						
Work planning, monitoring of activities, and management of emergent issues						
Integration in the professional world						
Respect for the organizations procedures/ rules and for their profession's ethical codes						
Capacity to work in teams						
Quality of the work delivered						
Communication						
Written communication (structure, clarity, coherence of reasoning)						
Oral communication (clarity, reasoning, self-confidence)						
Interpersonal skills and engagement, including in a multicultural context						
Independence						
Ability to present and defend her/his own ideas						
Capacity to access sources of information and to evaluate them						
Capacity to self-evaluate and to respond constructively to feedback						
Overall Evaluation						

- Find an internship position and in case you have found it by yourself, without using the IS-A portal, have the subject validated by **Mr. Sebastien Soubielle using the appropriate form**
- 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 the **EPFL internship agreement** to the employer and have it filled out and signed by the employer and Mr. Soubielle. **The signature of the agreement is mandatory.**
- 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. ([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.



- ✓ 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

Compatibility with academic calendar

IP owner(s)

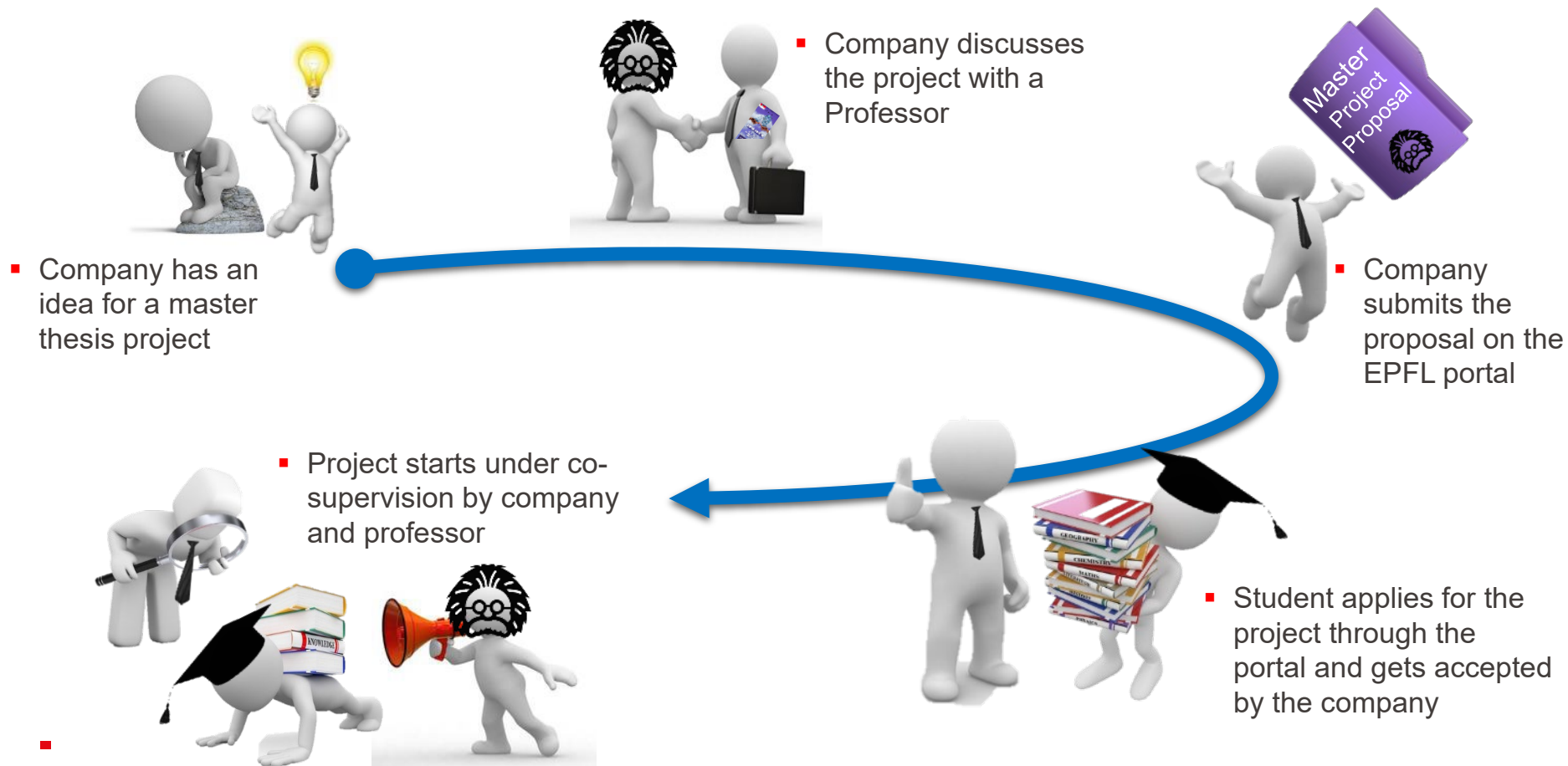


Confidentiality

Eligibility of candidate for master thesis



- ✓ 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 the student proposals without interacting with the host company



			Internship in Computational or Experimental Fluid Dynamics	02.09.2024	Kamstrup A/S	Skanderborg, Denmark		49941	Stage
			Research Internship(Theory)	02.09.2024	Nanofiber Quantum Technologies	Shinju-ku, Tokyo, Japan		49882	Stage
			Research Internship(Hardware)	02.09.2024	Nanofiber Quantum Technologies	Shinju-ku, Tokyo, Japan		49834	Stage
			Oliver Wyman - Consultant Intern (M/F/D) - Italy	30.08.2024	Oliver Wyman Italy	Milan		49909	Stage
			Oliver Wyman - Consultant Intern (M/F/D) - Greece	30.08.2024	Oliver Wyman Italy	Athens		49907	Stage
			Optimiser le design de la Supply Chain pour un site de Production (H/F)	30.08.2024	Rolex	Genève		49898	Stage
			Finite Element Modeling (FEM) of thermoplastic elastomer based sensors and actuators for soft robotics	30.08.2024	CEPF / EMPA Dübendorf	Empa Dübendorf		49892	PDM coordonné
			Formation pratique aux Méthodes d'Industrialisation	30.08.2024	Rolex SA, Manufacture des montres	Bienne		49884	Stage
			Data Scientist pour la génération de défauts visuels par intelligence artificielle	30.08.2024	Rolex SA, Manufacture des montres	Bienne		49883	Stage
			Junior AI engineer/intern - Python x1 (0-2 years)	29.08.2024	Hoja AI	Remote		49881	Stage
			Junior AI engineer/intern - Kotlin x1 (0-2 years)	29.08.2024	Hoja AI	Remote		49880	Stage
			Junior Frontend engineer/intern - Flutter x2 (0-2 years)	29.08.2024	Hoja AI	Remote		49879	Stage

-> 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, ...)
- The academic supervisor should discuss with the company about the academic content and administrative formalities. 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 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 a 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
- This agreement can only be downloaded by professors and MER

Agreement for master project

Agreement for master project

Important notice for the heads of EPFL laboratories:

This agreement shall not be signed:

- 1) **when the master project is part of a research project financed by the company.** In such a case, a research agreement shall be negotiated and executed in collaboration with the company and the Technology Transfer Office of EPFL (TTO) and the student will sign with EPFL an agreement on intellectual property and confidentiality.
- 2) **when the laboratory discloses to the Student source code or EPFL confidential information.** In such a case, the ownership on and the right to use EPFL intangible assets and the results of the Student shall be well analysed and discussed. Do not hesitate to contact TTO.

In addition, this agreement may only be signed if it is fully compatible with the other projects within the laboratory.

The present agreement is entered into by the three following Parties:

The host company

 (company and address)

Represented by

 (name and title of representative)

(hereinafter referred to as "Company")

AND

Ecole Polytechnique Fédérale de Lausanne, 1015 Lausanne (EPFL)

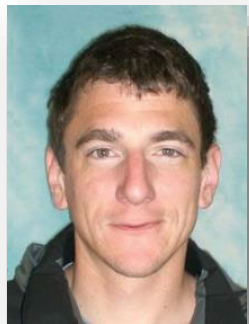
Represented by professor EPFL

- 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.
- 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 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

■ [General information](#) about Master's Projects

For further information, please visit the internship page of your section: <https://sti.epfl.ch/sgm/engineering-internship/> or the EPFL webpage <https://go.epfl.ch/infos-stages>

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



Alain Prenleloup

SGM
Adjunct to the
section Director



Sebastien Soubielle

SGM
Validation of internship subjects
& signature of internship agreement



Tamara Pelège

SGM
Administration



Hind Klinke

STI
Internship
Coordinator



Mélanie Thuillard

STI
Administration



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

