

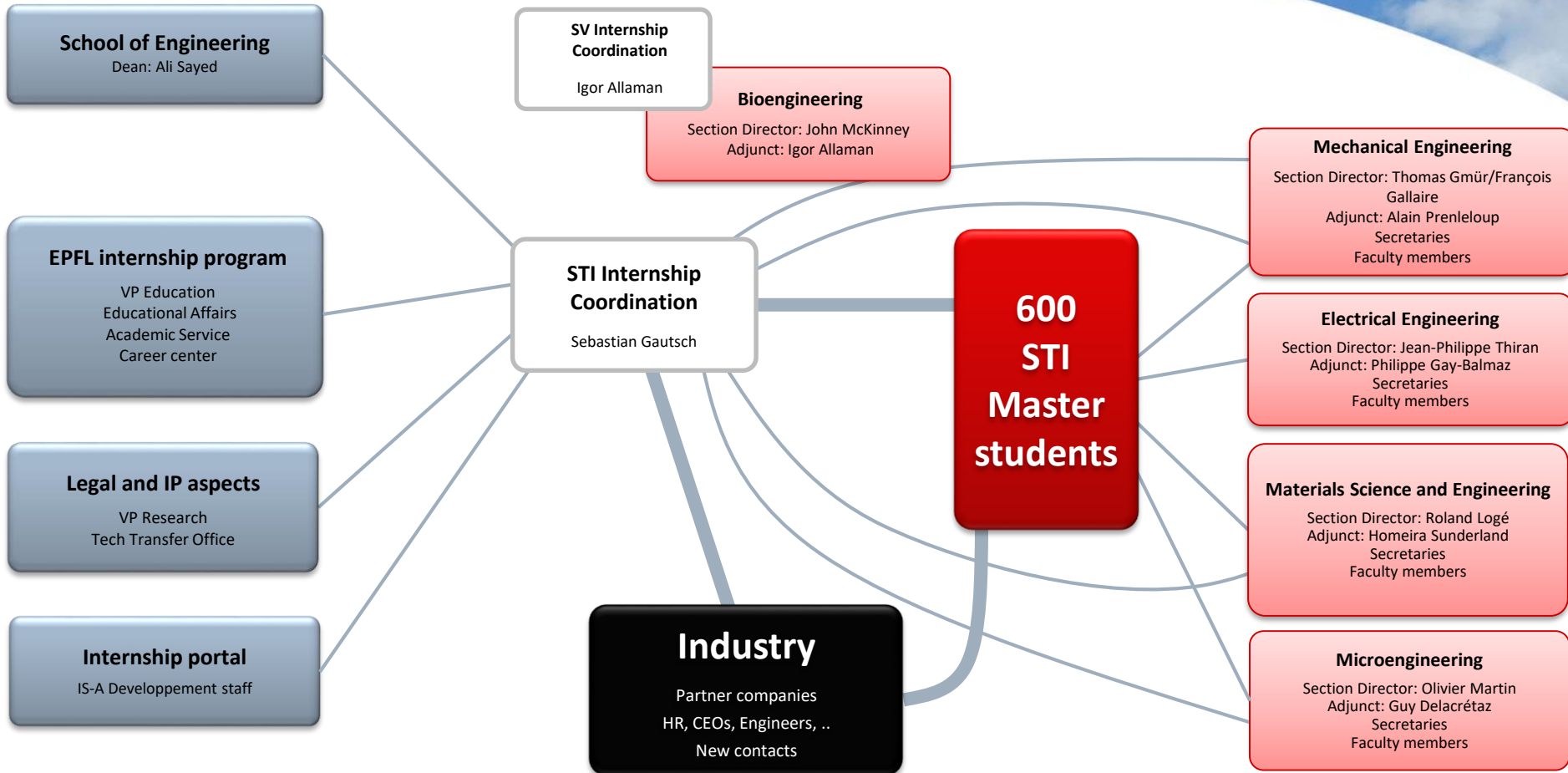
EPFL – Internships Mechanical Engineering

- General context
- Administrative procedures
- Pep-talk and statistics



Sebastian Gautsch
Coordinateur des stages STI

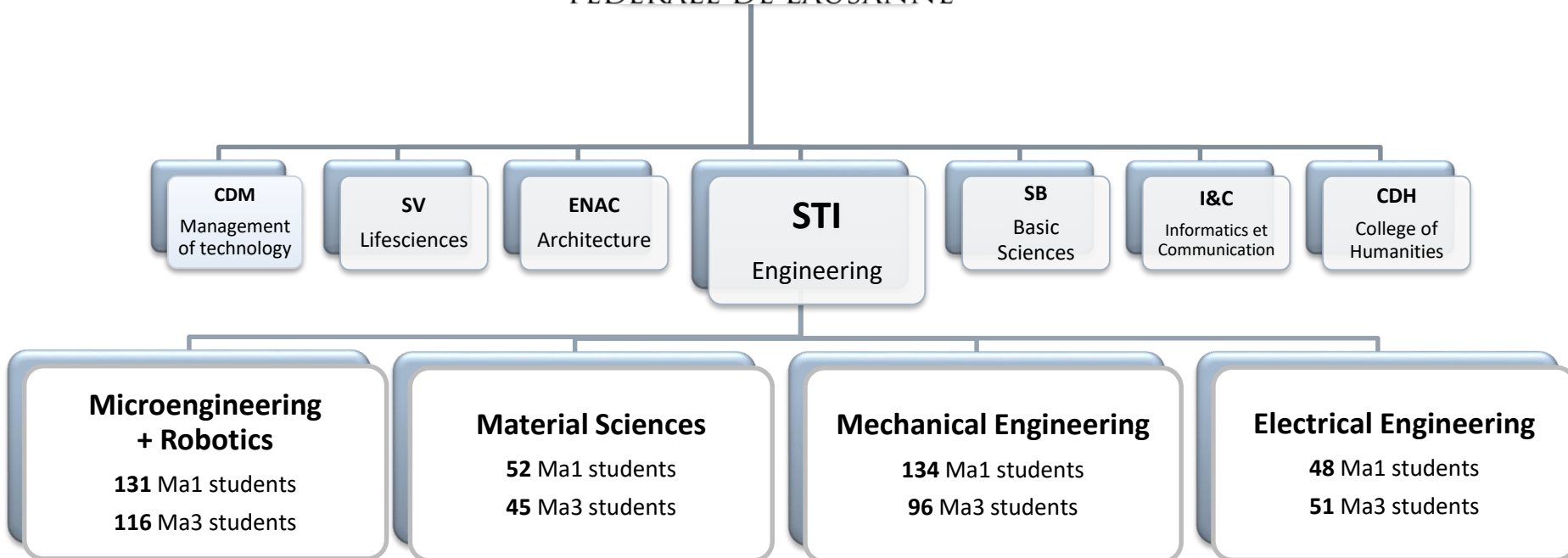
STI Internship Coordination



STI Internship Coordination



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE



Internship obligation



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

STAP : Detached internship but credited with the master's project

PDME : Master project in industry

	Models	Duration	Periods	Contact information
Electrical and electronics engineering	STAP SCS (30 credits) PDME	Min. 8 weeks 4-6 months 25 weeks	After bachelor, after MA2 or MA3 After MA2 During the master project	Web Site EL
Mechanical engineering	STAP PDME	Min. 8 weeks 25 weeks	After bachelor, after MA2 or MA3 During the master project	Web Site GM
Materials science and engineering	STAP PDME	Min. 8 weeks 25 weeks	After bachelor, after MA2 or MA3 During the master project	Web Site MX
Microengineering	STAP PDME	Min. 8 weeks 25 weeks	After bachelor, after MA2 or MA3 During the Master project	Web Site MT



Mandatory Internship or Master Project in Industry



□ Internship

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

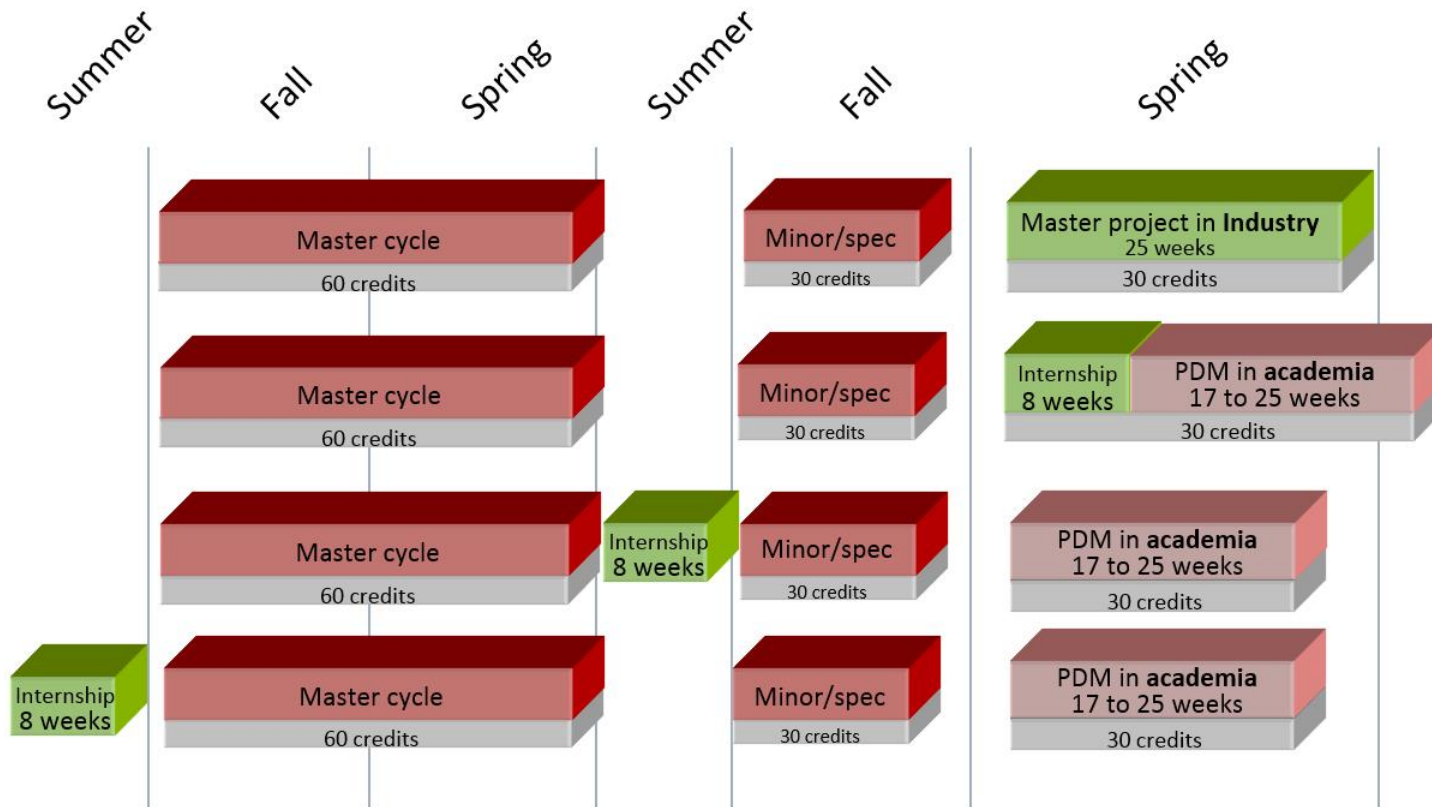


□ Master project in industry

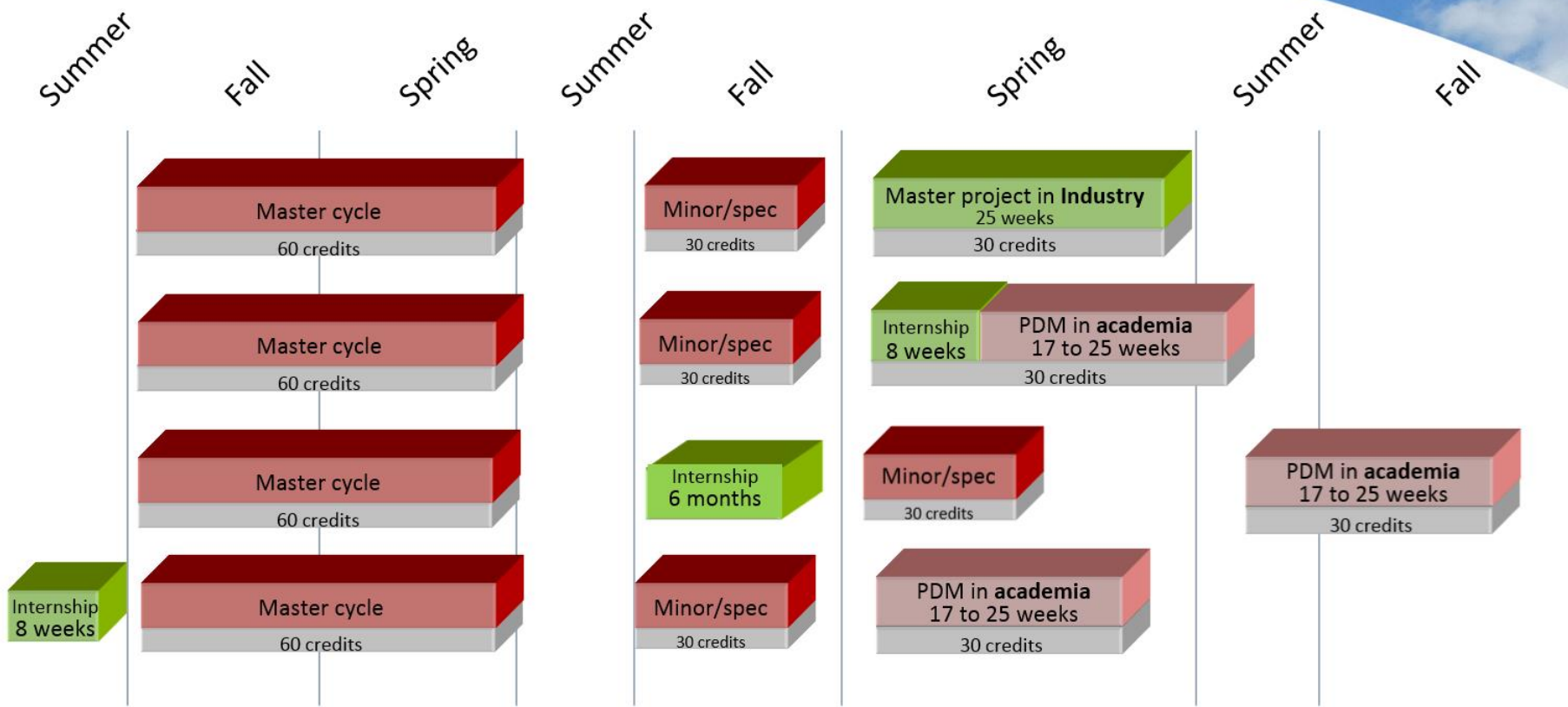
- A research project in the company
- Student applies the competences acquired during his master
- Supervised by a Professor **from his section**
- Written report and oral defense
- **Monthly feedback to Professor**
- 25 week duration (+1 week vacation)



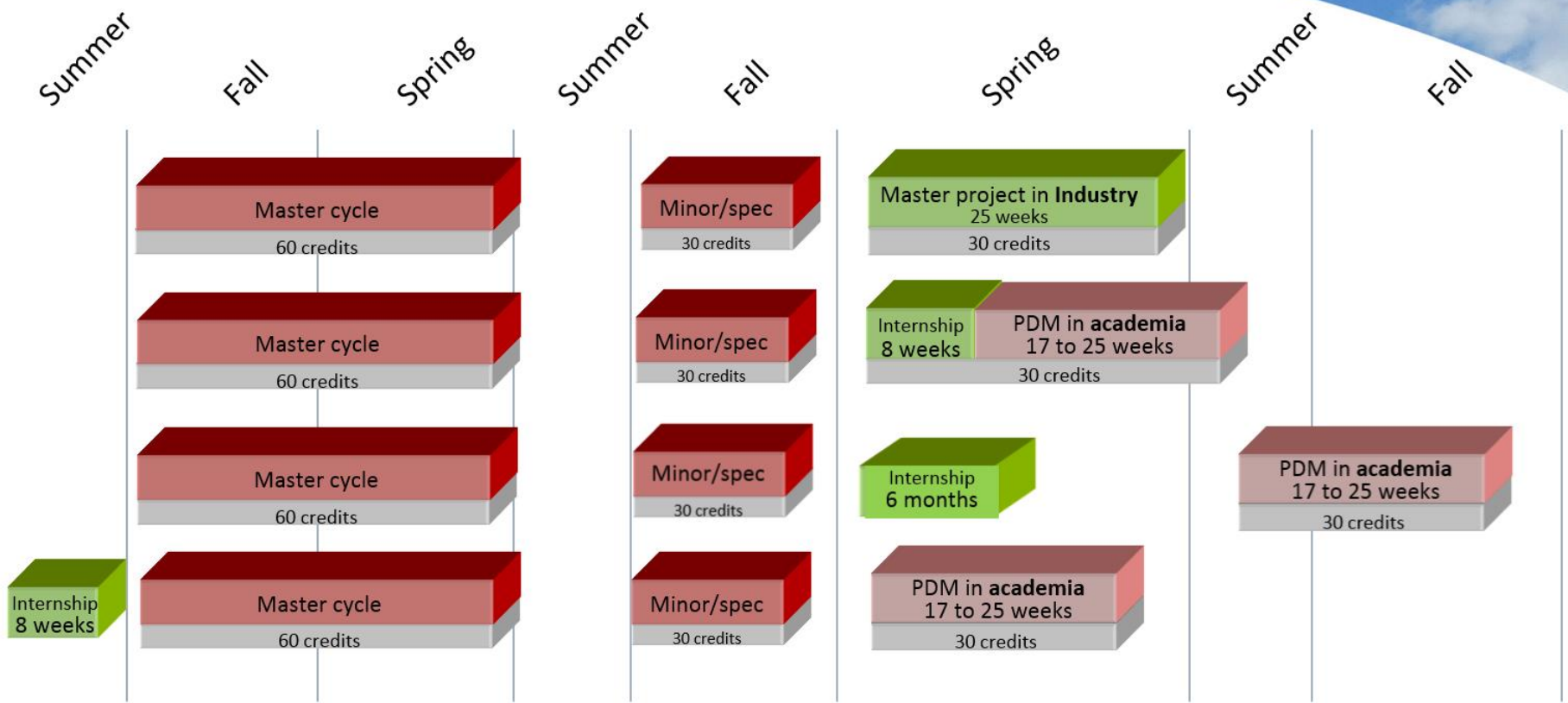
When to place your internship / Master thesis?



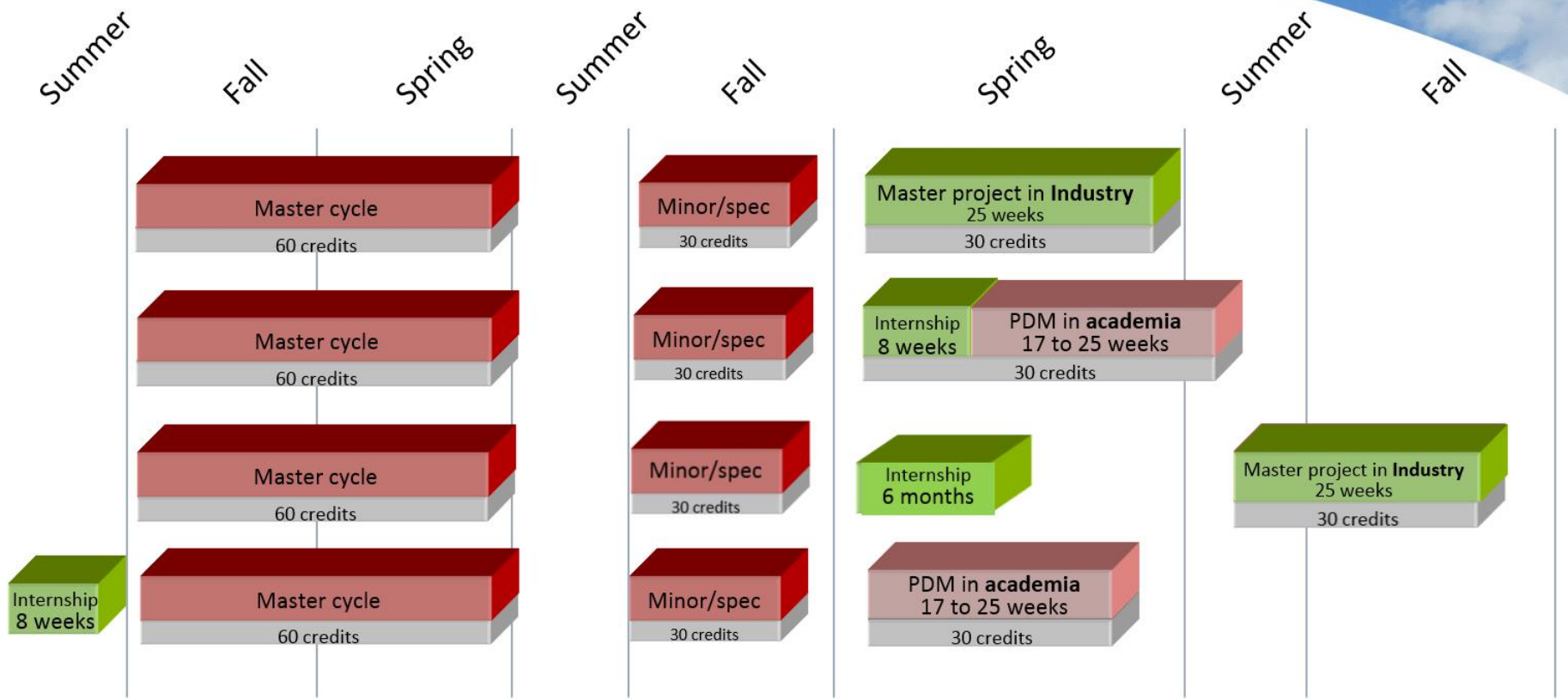
When to place your internship / Master thesis?



When to place your internship / Master thesis?



When to place your internship / Master thesis?



Internships between bachelor and master



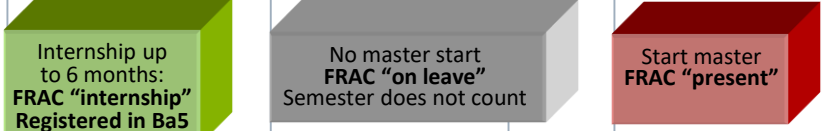
□ If you have finished your bachelor and would like to take an interim year to do your mandatory industry internship for your master, the following academic rules and FRAC status' apply:

Summer Fall semester Spring semester Summer Fall semester

Option 1



Option 2



Option 3



Option 4



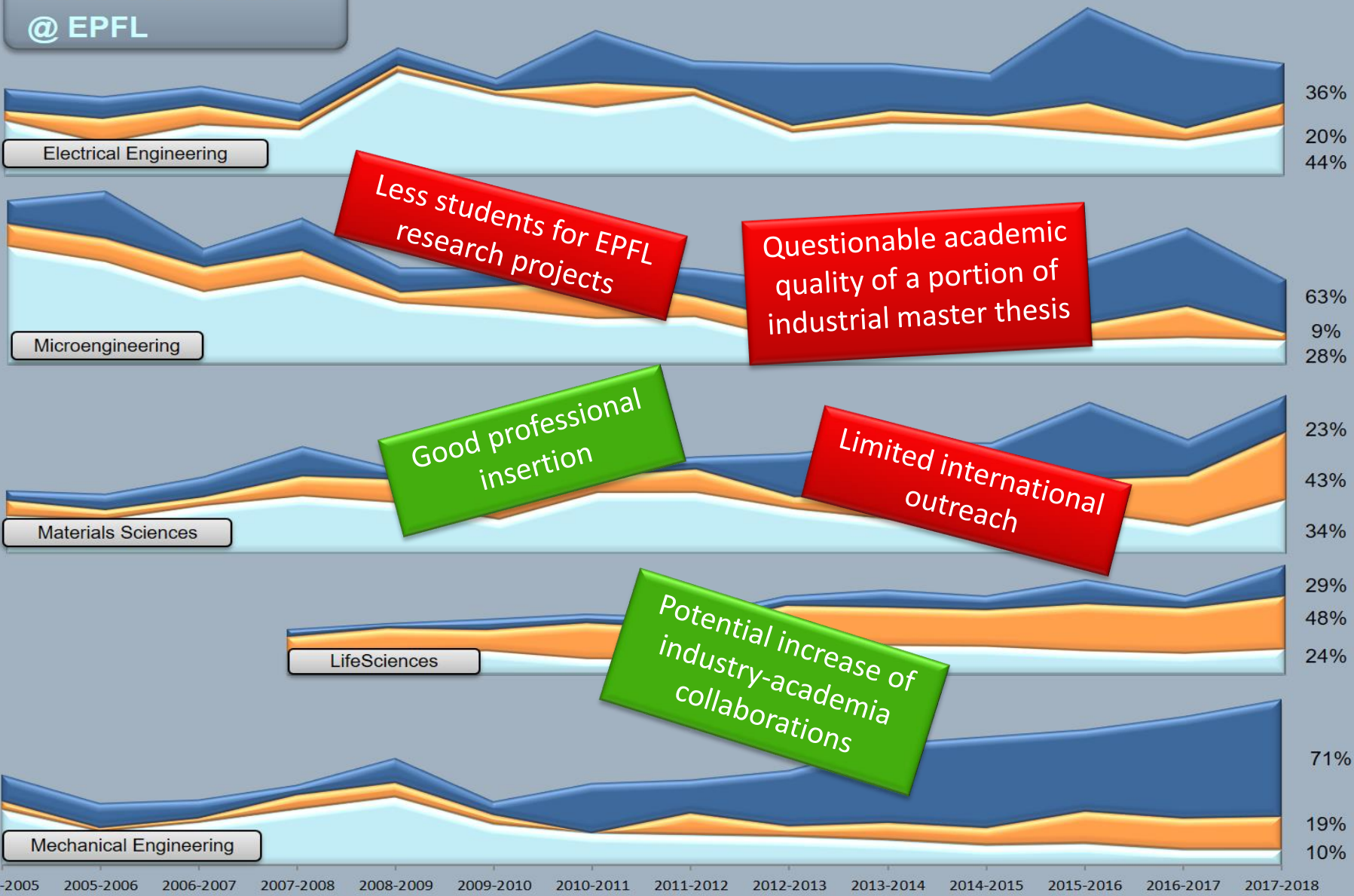
In option 4 the fall semester will be accounted to your master studies, except if you are doing your army or civil service



The master thesis in Industry



In Industry
Other Universities
@ EPFL



Less students for EPFL research projects

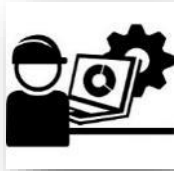
Questionable academic quality of a portion of industrial master thesis

Good professional insertion

Limited international outreach

Potential increase of industry-academia collaborations

Current habits for establishing master thesis in industry



Compatibility with academic calendar

Agreement on IP

Confidentiality

Eligibility of candidate for master thesis



□ Companies get in touch with research labs to propose master thesis topics

□ Companies can accept students for internship proposals and accept the format change to master thesis projects

□ 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

□ Students contact professors of their section to ask for existing industrial projects

□ Students can apply for internships and have it validated as master thesis projects by the supervising professor

□ Professors and teachers evaluate the academic content of proposals from students before accepting it as master thesis projects



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



Project starts under co-supervision by company and professor



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

Master thesis in industry on the internship portal



Action	Stage	Entreprise mère	Localisation du stage	Févr-Sept (P1)	Juil-Févr (P2)	Juil-Sept (P3)	N° du stage	Format	Inscrits	Places	Prof	Date de création du stage
								[tous]				
	Amélioration qualité image satellite par contrôle fin de la ligne de visée	Thales Alenia Space	Cannes, France	✓			18976	Stage	0	1		4.09.2017
	Experimental Physics Internship	Distran GmbH	Zurich	✓			18973	PDM ou Stage	0	1	à trouver (si PDM)	4.09.2017
	Transfer learning for field and crop adaptation in agriculture applications	ecoRobotix	Yverdon-les-Bains	✓			18972	PDM ou Stage	0	1	à trouver (si PDM)	4.09.2017
	Product Engineer	Infineon Technologies France	Aix en Provence	✓			18967	Stage	0	1		4.09.2017
	déploiement d'un système de sureté pour un site sensible	Etavis tsa	Carouge	✓			18962	Stage	0	1		3.09.2017
	Thermal effect and Compensation in high precision states	Etel S.A.	Bienne	✓		✓	18953	Stage	0	1		3.09.2017
	Intern Manufacturing	Stryker Trauma AG	Selzach (SO)	✓			18934	Stage	0	1		2.09.2017
	Modélisation d'un processus de laminage	Constellium Valais SA	Sierre	✓			18933	Stage	0	1		2.09.2017
	Hybrid PET/MR imaging guided radiation therapy treatment planning	Hôpitaux Universitaires de Genève	HUG Genève	✓	✓		18930	PDM coordonné	0	2	Prof. Thiran Jean-Philippe	2.09.2017
	Various internship positions in Motion analysis Startup for applications in Sports, Health and Gaming	Gait Up	Renens	✓			18922	Stage	1	2		2.09.2017
	Various internship positions in Motion analysis Startup for applications in Sports, Health and Gaming	Gait Up	Renens	✓	✓		18920	PDM coordonné	0	2	Prof. Aminian Kamiar	2.09.2017
	Printed freeform optics for light control	CSEM SA MuttENZ	Basel	✓			18915	PDM ou Stage	0	1	à trouver (si PDM)	1.09.2017



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, ...)
- ❑ Organize a meeting between the teacher 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



Master thesis in industry, instructions to Profs



Best Practice Regarding Master Projects in Industry

1. Introduction

This document sets out the rules to be observed in the field of supervision of master projects in industry.

Master projects in industry are particular in that they are an academic task performed outside academic circles within a host company. Indeed, they imply a tripartite relationship (EPFL professor, student, company) making academic and legal issues more complex due to the hybrid nature of the work.

A master project in industry remains first and foremost a master project. It must therefore include an academic dimension defined and controlled by the professor. Although it is performed in a company, the master project must imperatively include a research and innovation angle, thus contributing to the advancement of science in its field.

In addition, the collaboration induced by the master project in industry must benefit the research carried out by the laboratory. It is also important that the laboratory's research be and not therefore offered to companies in the framework of master projects.

A professor may not under any circumstances supervise a student's master project without first making contact with the company prior to any commitment by the parties.

Professors are entitled to refuse to supervise a student's master project should the terms discussed with the company not suit them or contravene EPFL requirements in this field.

3.2. Use of EPFL resources

Students may not use EPFL installations, resources, information, software or other intangible assets without their professor's written approval.

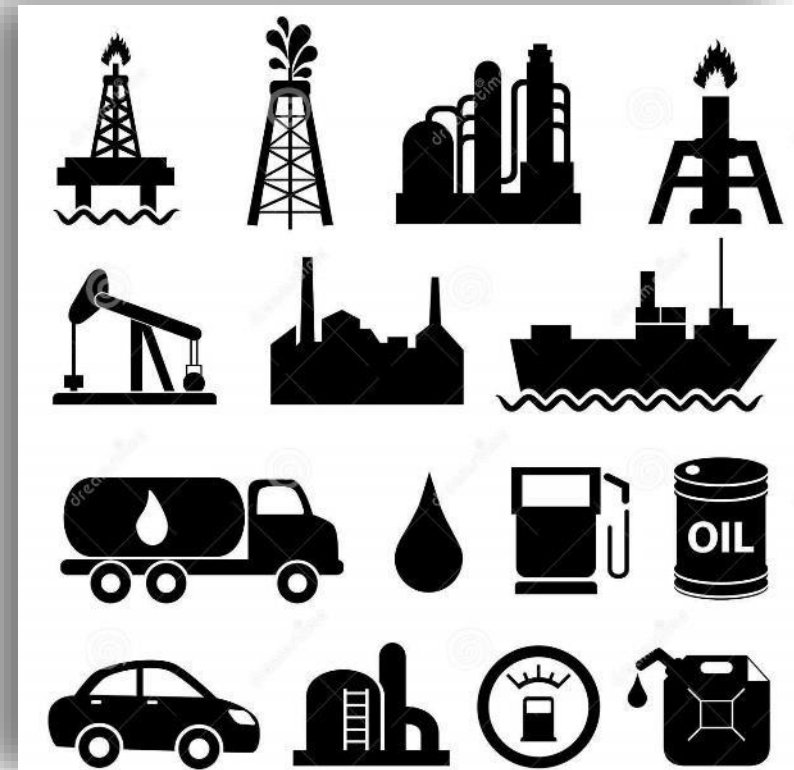
Access to best practices document here (for teachers only)



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 between 1'500-2'500 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, ...)

Validation of previous internships and industrial experiences



Internships done during the bachelor degree are not accepted for validation.

Exceptions can be granted in the following cases:

Internships done after your bachelor degree

- The internship must be accepted by the section deputy
- The internship duration must be at least 8 weeks
- The ending should not be further than 1 year apart from your master beginning date.
- An evaluation report or a work certificate has to be presented to the section deputy

Industrial experiences of at least 1 year related to the field of the future master studies can be accepted for validation

- A valid work certificate has to be presented to the section deputy.

Administrative aspects and Procedures



Work authorization

(not required for Master Projects with no 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>
- 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 2-6 month internship have to be **announced** at the cantonal office
- It is the company's responsibility to request this authorization at the proper working office of their canton/country.
- It requires up to 8 weeks to obtain this authorization from the cantonal offices.
- It is recommended 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 is 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".

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 the student can find an alternative to his personal quest for finding an internship.
- Access to the EPFL portal is given through the student's IS-Academia account

EPFL IS-ACADEMIA OUTIL DE GESTION ACADEMIQUE

Home FRAC Courses Courses booklets Course Registration Results Language Centre Personal Details Delegates Tutoring Exchange

Electrical and Electronics Engineering, 2017-2018, Master semester I

Electrochemical engineering
Energy economics and policy I
Energy storage in power systems: technologies, applications and future needs
Hydropower plants: generating and pumping units
Industrial electronics I
Lab in electrical energy systems
Mathematics of data: from theory to computation
Multivariable control and coordination systems
Principles of semiconductor devices

Horaires

Attention : les horaires affichés peuvent encore faire l'objet de modifications.

Choose the date: <<from 25.09.2017 to 01.10.2017>>
One week

	Mo	Tu	We	Th	Fr	Sa
8h - 9h			Multivariable control and coordination systems DIA005 EE-477 Lecture		Electrochemical engineering GRC001 CHE-407 Lecture	

Internships showroom (stu)

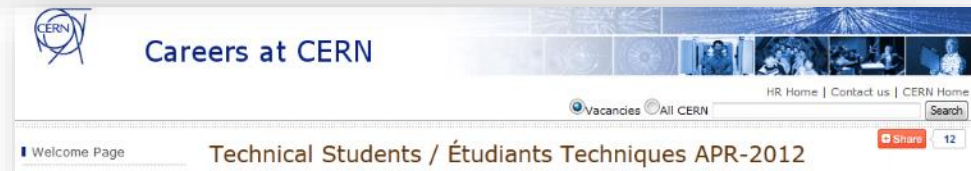
Academic links
Other links
Address change
Academic registration
Download Bachelor's diploma
Evaluations results
Print enrolment certificates
Registration to Students Online Reporting
Statement of results
Teaching evaluations



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 by these alternative ways needs to be approved by your section. Please contact the section deputy as soon as you have found an opportunity





Ingénieurs du Monde

Qui sommes-nous?

Ingénieurs en devenir, nous nous intéressons aux problématiques liées à la coopération scientifique Nord-Sud et au développement.

Nous contacter

Ecrivez-nous à
stage.idm@listes.epfl.ch

On vous offre une bourse...

- Qui couvre frais de voyage et de visa
- Pour un stage
 - Dans un pays en développement
 - Pour un projet durable
 - De minimum 8 semaines

Allez regarder les offres disponibles sur notre plateforme!

<http://idm.epfl.ch/stages/>



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.
- ❑ This opportunity will be offered to 3-4 projects per year and starts as of September. 2018 Students will have to go through a selection process, starting by contacting xgrant@epfl.ch.
- ❑ Further communication will be undertaken throughout the year by the faculties internship coordinators.





- EPFL students have access to the Alumni network
 - Website: alumni.epfl.ch
 - Pocketcampus app

The screenshot displays the EPFL Alumni network website interface. At the top, there are language options (en, fr) and navigation links (Contact, FAQ, Sponsoring, EPFL homepage, Edit profile, Log Out). The EPFL logo and 'EPFL ALUMNI' text are prominently displayed. Below this is a navigation menu with categories: BENEFITS, DIRECTORY, CHAPTERS, CAREER, COMPANIES, START-UPS, MENTORING, and STUDENTS. A search bar is present, and the results show 5 alumni found. The search filters on the right include Country (Austria (36)), Education Unit (Electrical and Electronic Engineering (3446)), and Type of Diploma (Filter by diploma).

Name Lastname	Company	
Anurag Mangla ★	ams AG	+
Daria Krasnozhan	Infineon Technologies, CSEM	+
Hesham Ghoneim		+
Karin Schnass		+
Katayoun Farrahi		+



Start working with Linked'In



1 269 relations

Classer par : Prénom ▾

🔍 Trouver des relations [Chercher avec des filtres](#)

	Gilles Pillonel 裴尔吉 R&D Project Manager at BOBST	Message ⋮
	Adi Vardi MSc Microtechnique EPFL, spécialisation en Robotique et Systèmes Autonomes	Message ⋮
	Adrian Troemel Candidat MBA à Rice Univeristy MSc EPFL Genie des Materiaux	Message ⋮
	Adrien Briod Co-founder & CTO of Flyability SA	Message ⋮
	Adrien Béraud Ring project director chez Savoir-faire Linux	Message ⋮
	Adrien Chabbey Area Sales Manager chez Fischer Connectors	Message ⋮

[Gérer les contacts importés](#)

Il reste encore des contacts avec qui vous connecter

[Se connecter](#)

Plus d'options

Concentrez-vous sur le savoir-faire et la qualité. Nous assurons votre entreprise.

[En savoir plus >](#)

Heureux. Ensemble.

vaudoise
Assurances

[À propos](#) [Assistance clientèle](#)
[Conditions générales et confidentialité](#) ▾
[Publicité](#) [Solutions professionnelles](#) ▾



Find an Internship during EPFL's Forum



A screenshot of the FORUM EPFL website homepage. The background is a blurred image of two people in a meeting. The website layout includes a navigation bar with a menu icon, the FORUM EPFL logo, and links for 'Édition 2018', 'Étudiants', 'Entreprises', 'Start-ups', and 'Universités'. On the right, there are buttons for 'Connexion', a search icon, and a language dropdown set to 'FR'. A central green box contains a line-art drawing of a building and the text: 'Retrouvez le Forum EPFL', 'du 8 au 12 octobre 2018', and 'au SwissTech Convention Center'. On the right side, there is a 'Nos publications' section with three items: 'Forum Mag', 'Entreprise', and 'Start up'. A small green circular icon with a question mark and speech bubble is in the bottom left corner of the screenshot.

forum.epfl.ch

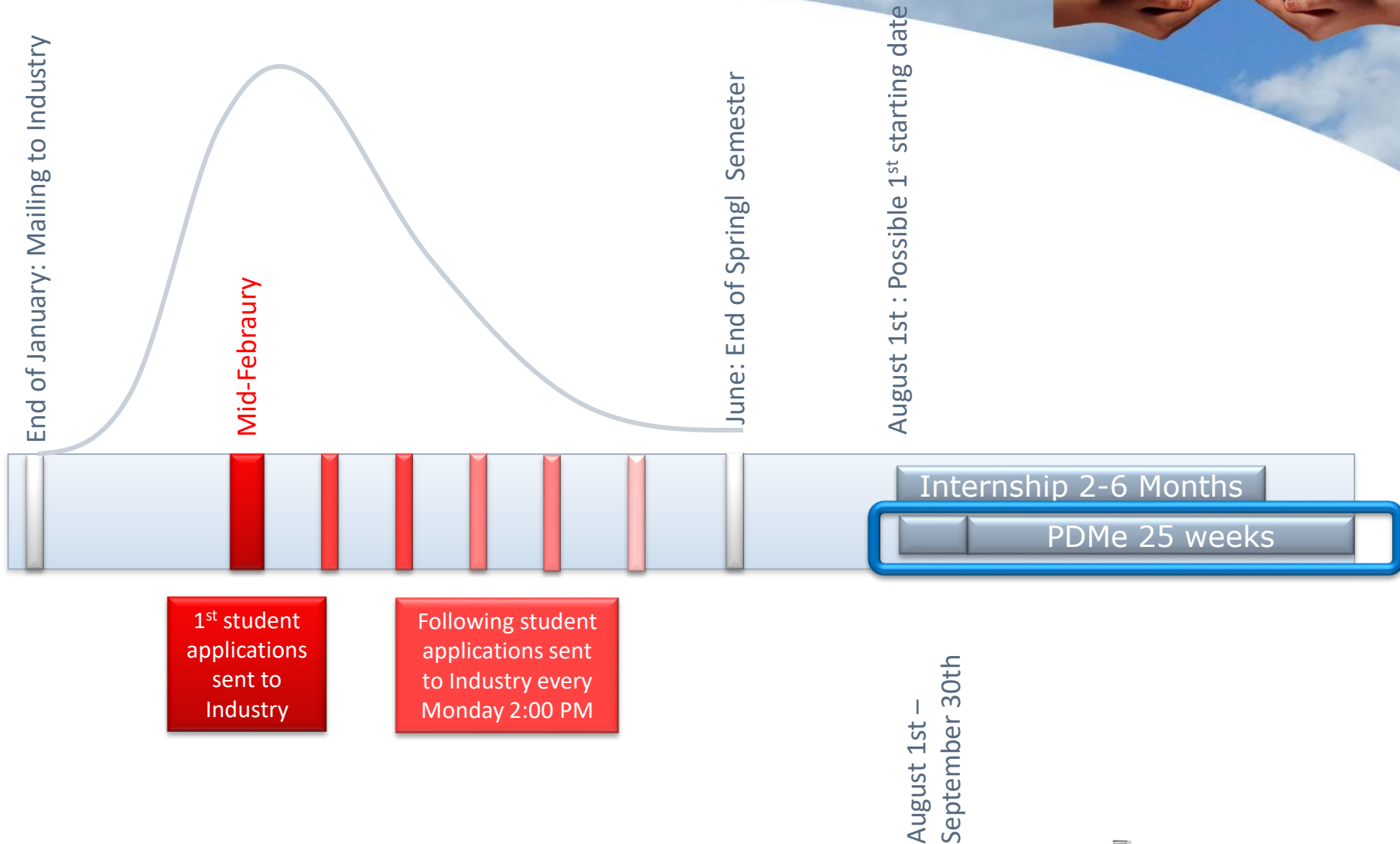


How does the internship portal work ?

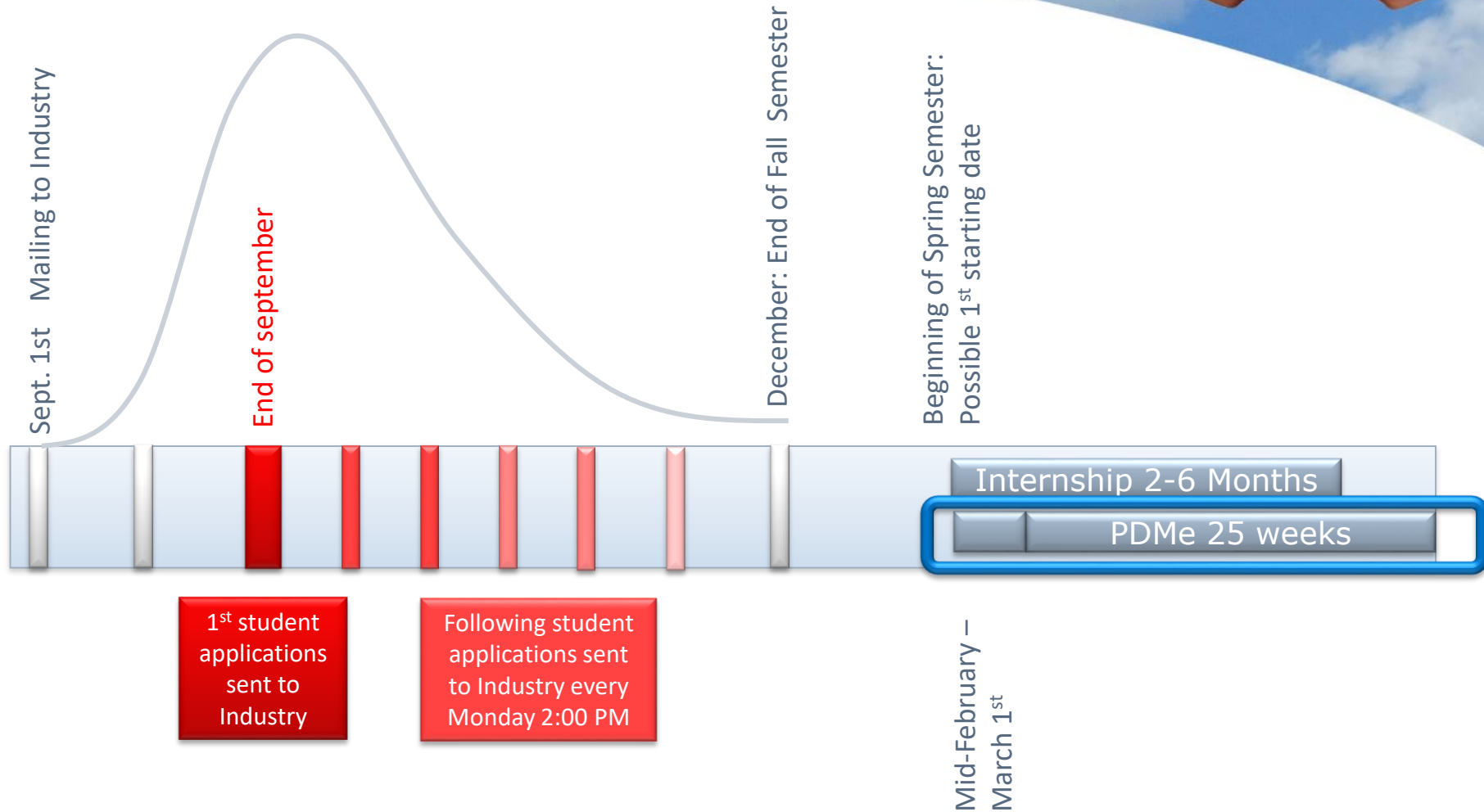


- Browse through the internship offers of your Master program
- Apply for a position by uploading 2 mandatory documents:
 - CV
 - motivation letter
- Applications are sent on a weekly basis to the companies (every Monday 14h00)
- Wait for the company to make its selection process (up to several weeks)
- 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.
- Once you have accepted the offer
 - No withdrawal from the accepted position!
 - Kindly notify all other companies you had privileged contact with

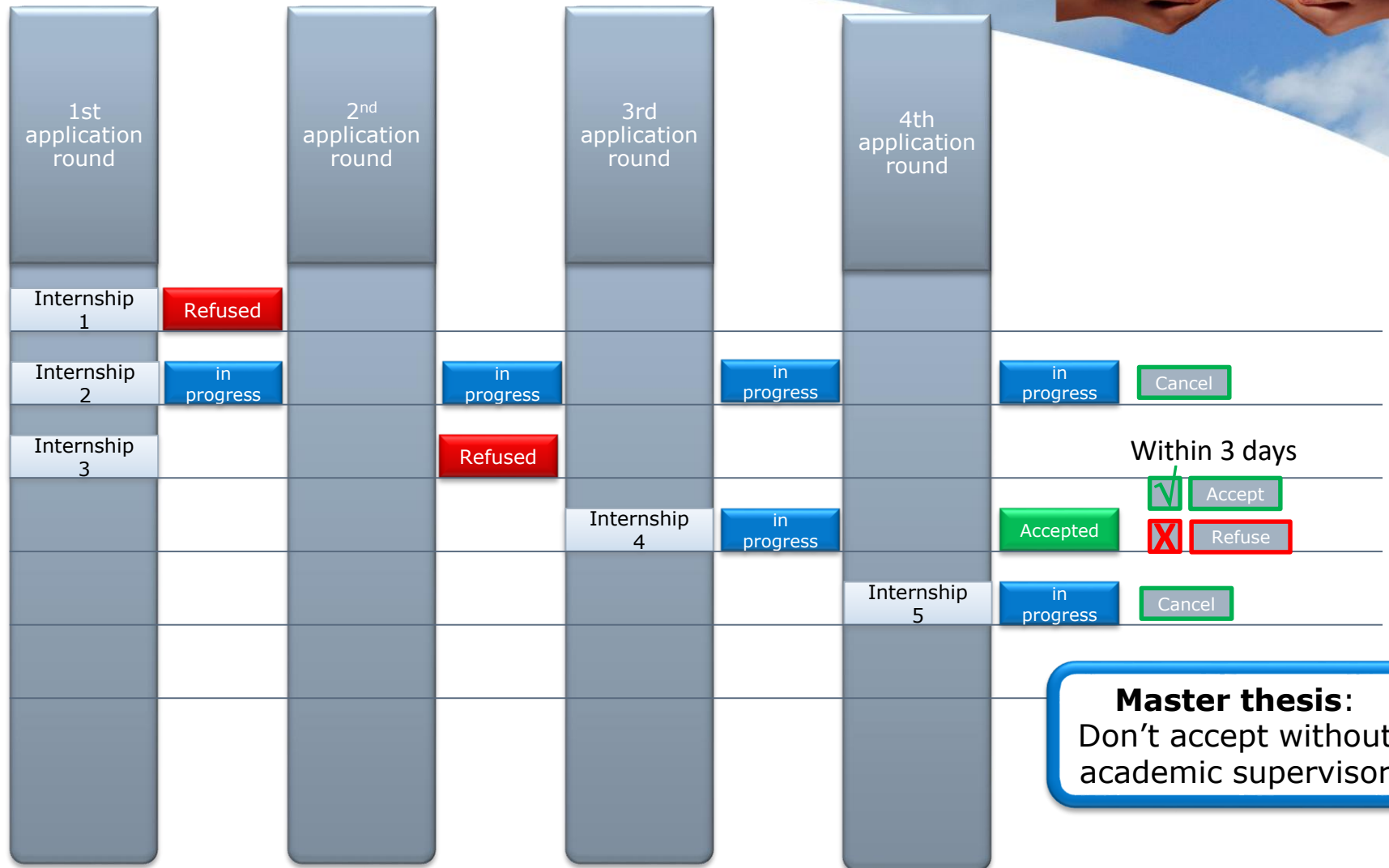
Attribution process in the spring semester



Attribution process in the fall semester



Internship attribution, possible scenarios



Master thesis:
Don't accept without academic supervisor



Register internships found by your own



- Submit a 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.

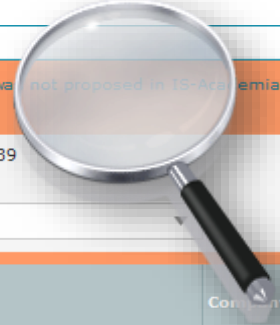
Internships - Showroom (stu)

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

Nombre de places disponibles : 239

84 displayed item(s) / 84 available item(s)

Context : -- All criteria/words should be contained



Action	Internship	Company (top)	Assignment location	Févr-Sept (P1)	Juil-Févr (P2)	Juil-Sept (P3)	Internship number	Format	Registered	Places	Prof	Creation date of the internship
			<input type="text" value="="/> <input type="text" value="[all]"/>						25	240		
	Industrial Analytics, IoT, and Mobiles	Schindler Aufzüge AG	Ebikon	✓			19094	Internship	0	1		20.09.2017
	Temperature mapping and monitoring of a complex device	CERN - European Organization for Nuclear Research	CERN, Geneva, Switzerland	✓			19088	Internship	0	1		20.09.2017



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



Interview



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 1h30:

This fall semester

1. Understanding recruiters (November '16)
2. Reviewing the CV
3. The motivation letter

Next spring semester

4. The Job interview
5. Communication and organization at work

Each course will be given 2x in English and 5x in French

Information and mandatory registration here: <https://bookwhen.com/stages>

Anticipate



- 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

Update your FRAC



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

- In case of a credited internship (only EE students):
 - Semester (choose the right one: MA1; MA2; MA3)
 - Status : Internship (authorized by the section)
 - Mention in the comments « Credited internship during master course (SCS) »

- In case of a long internship without credits
 - 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) »

Announce your stay abroad to EPFL Safety domain



□ <http://securite.epfl.ch/voyages>

NEWS SAFETY, HEALTH & PREVENTION

Create an account Help

Share Print

Assistance program when travelling abroad



02.06.14 - You are travelling abroad for business or studies ?

As a collaborator, doctoral-assistant or student of EPFL, the Safety, Prevention and Health Domain (DSPA) provides you an assistance program when travelling abroad. Since the 1st of June, a partnership with International SOS has been set up to help you to prepare your journeys and to assist you during

your business travels abroad (conferences, seminars, training, etc.). Security and medical informations on your country of destination are available, as well as the access to a call centre to assist you 24/7. For any additional information, please consult the website: securite.epfl.ch/travel.

NB. Private travels are not covered by this program !

Author: Sylvia Fabris **Source:** Sécurité, Prévention et Santé

[Return to previous page](#)

LINKS

[safety](#)

[All Safety, health & prevention news](#)

[All EPFL news](#)

SUBSCRIPTION

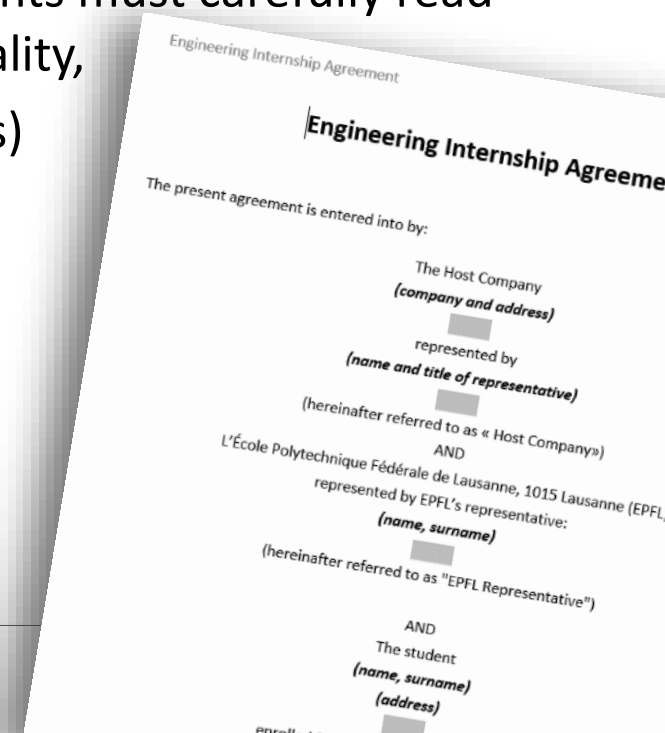
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Internship agreement



- 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 rare cases, but the students must carefully read and comply with the content (IP issues, confidentiality, insurances and especially non-competition clauses)



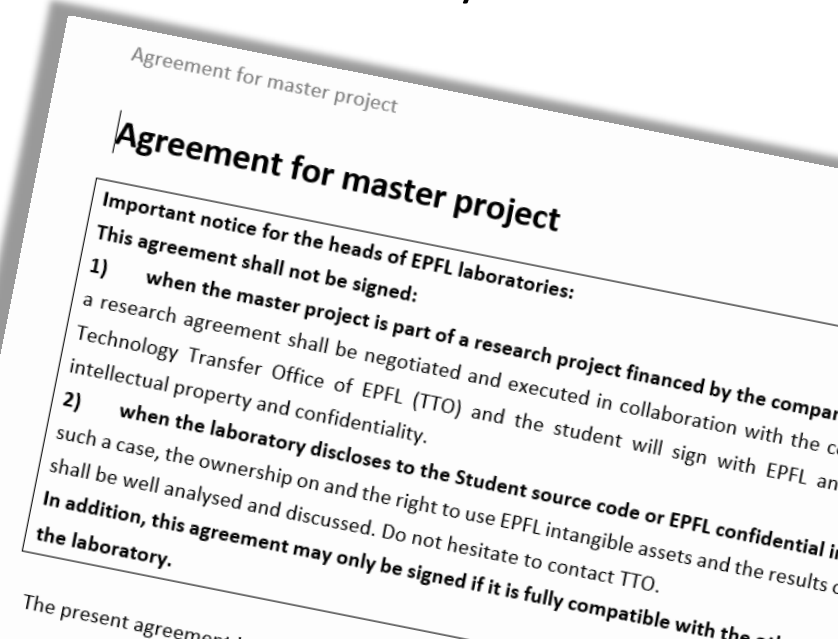
Master project agreement



- 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



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).



Mandatory Steps for a 2-6 month internship



1. Find an internship position and in case you have found it without using the IS-A portal, have the subject validated by your [section deputy](#).
2. Inform the [STI coordinator](#) that you have found your internship.
3. Cancel all ongoing applications by gently notifying the companies. This step is extremely important to keep a good relationship with potential future employers.
4. *Transmit [the EPFL internship agreement](#) to the employer and have it filled out and signed by the employer and the section deputy. The signing of the agreement is mandatory.*
5. 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](#).
6. **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.**
7. In case your internship is during a semester, make sure to update your FRAC according to [the following table](#)
8. At the end of the internship, fill out the evaluation form 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 form.

Mandatory Steps for a Master project in Industry



1. Find a master project in industry by contacting the professors of your section.
2. 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. The STI Initiative on [Coordinated Master Projects](#) is promoting offers through the portal.
3. Official starting dates for master projects in industry are as follows:
 - Beginning of spring semester - registration deadline for spring semester courses (2 weeks after)
 - August 1st - registration deadline for fall semester courses (end of September)Other starting dates can be obtained on special request to your section.
4. All administrative details of your master project in industry have to be settled between the employer and the professor supervising your work. On request from the professor or the company, the [EPFL master project agreement](#) can be signed .
5. **Once all the details of your Master project in Industry have been settled, enter the details of your PDMe in your study plan**
6. Make sure to update your FRAC according to [the following table](#)

EPFL internships on the web



Section webpage:

<http://sti.epfl.ch/page-74480-en.html>

SCIENCES ET TECHNIQUES DE L'INGÉNIEUR STI

La STI » Bioengineering Génie Électrique et Électronique » Science et Génie des Matériaux » Génie Mécanique » Microtechnique »

Partager:

Stages d'ingénieur



Les stages en entreprise font partie intégrante de votre cursus Master en Génie mécanique. C'est pour vous l'occasion de rejoindre une entreprise en Suisse ou à l'étranger et d'y faire une expérience enrichissante en y découvrant la culture d'entreprise.

Pour les entreprises, c'est l'occasion de

Enseignement - SGM

Structure de la Section

► Futurs étudiants

► A propos des cours

Conditions de réussite

Documents utiles

► BS Génie Mécanique

► MS Génie Mécanique

Stages d'ingénieur

Type et contenu de stage

Profil et compétences des étudiants GM

Marche à suivre pour étudiants

FAQ pour entreprises

FAQ pour étudiants

Documents

EPFL webpage:

<http://internships.epfl.ch>

EPFL INTERNSHIPS

Calendar and Conditions Recruitment Process Students Skills Testimonials Students Te

Share:



Students enrolled in a Master program in a domain leading to an engineer title have to complete an industry internship or master project before graduation. The goal is to give the students the opportunity to acquire industry practice in complement of the academic knowledge.

We invite companies to offer internships proposals to EPFL students.

Accommodating an intern allows companies:

- identifying future potential collaborators
- receiving help on a specific project
- bringing into play new ideas
- becoming a strategic partner of EPFL for the quality of education of the students
- keeping contact with generations

Depending on the master program, students are available from 2 to 6 months, during summer vacation or during the academic semesters (from July to February or from February to August).

The **EPFL internships portal** is convenient to promote internship ads and manage students applications.

Thank you for your collaboration!



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 to 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.



STI Internship Program

- **Pep talk for Students**
- **Some statistics**

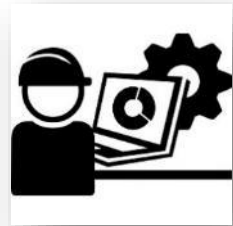


The internship: Excellent Opportunity !!!



□ 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

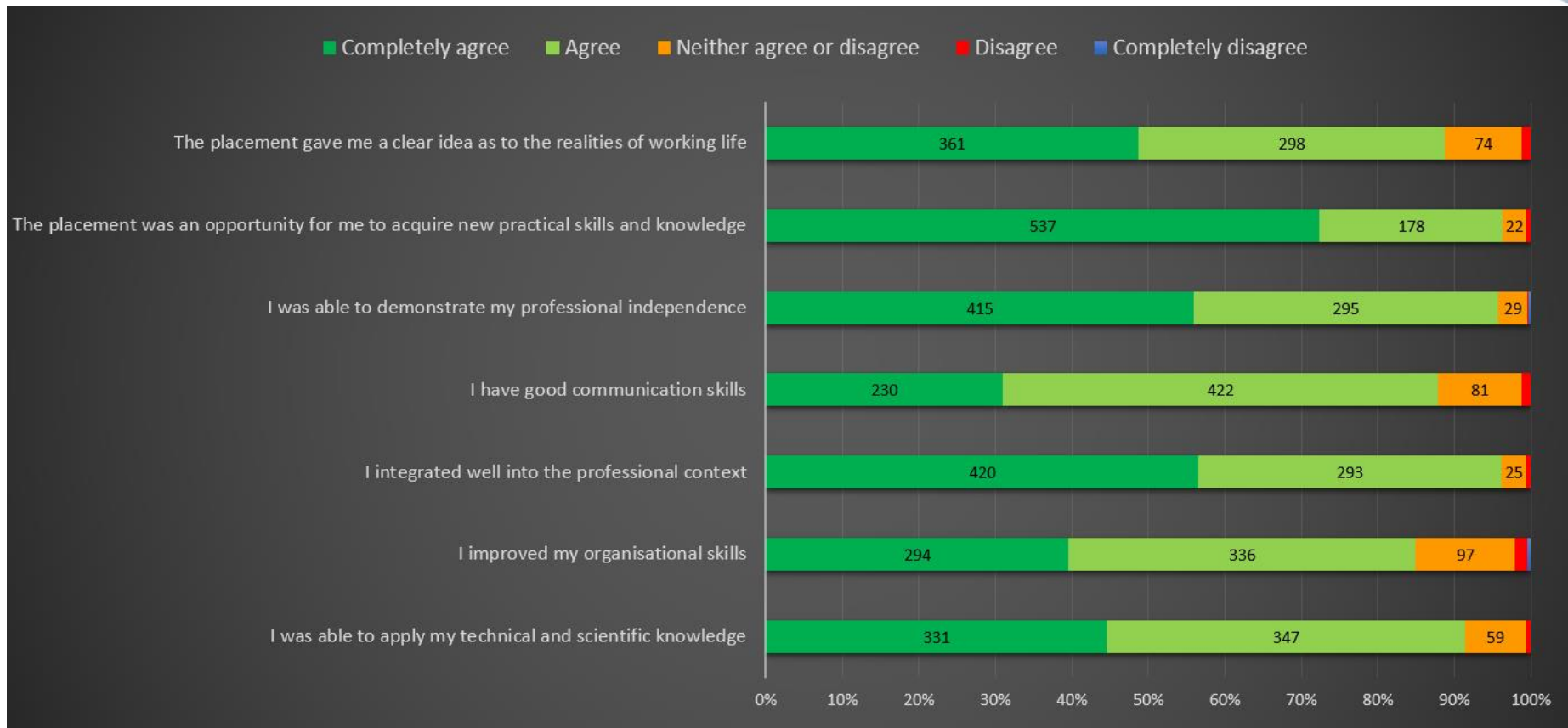
- A direct link to industry
- A new platform to start collaborations on the research level
- Feedback from industry to improve the education of our students



Internship evaluations

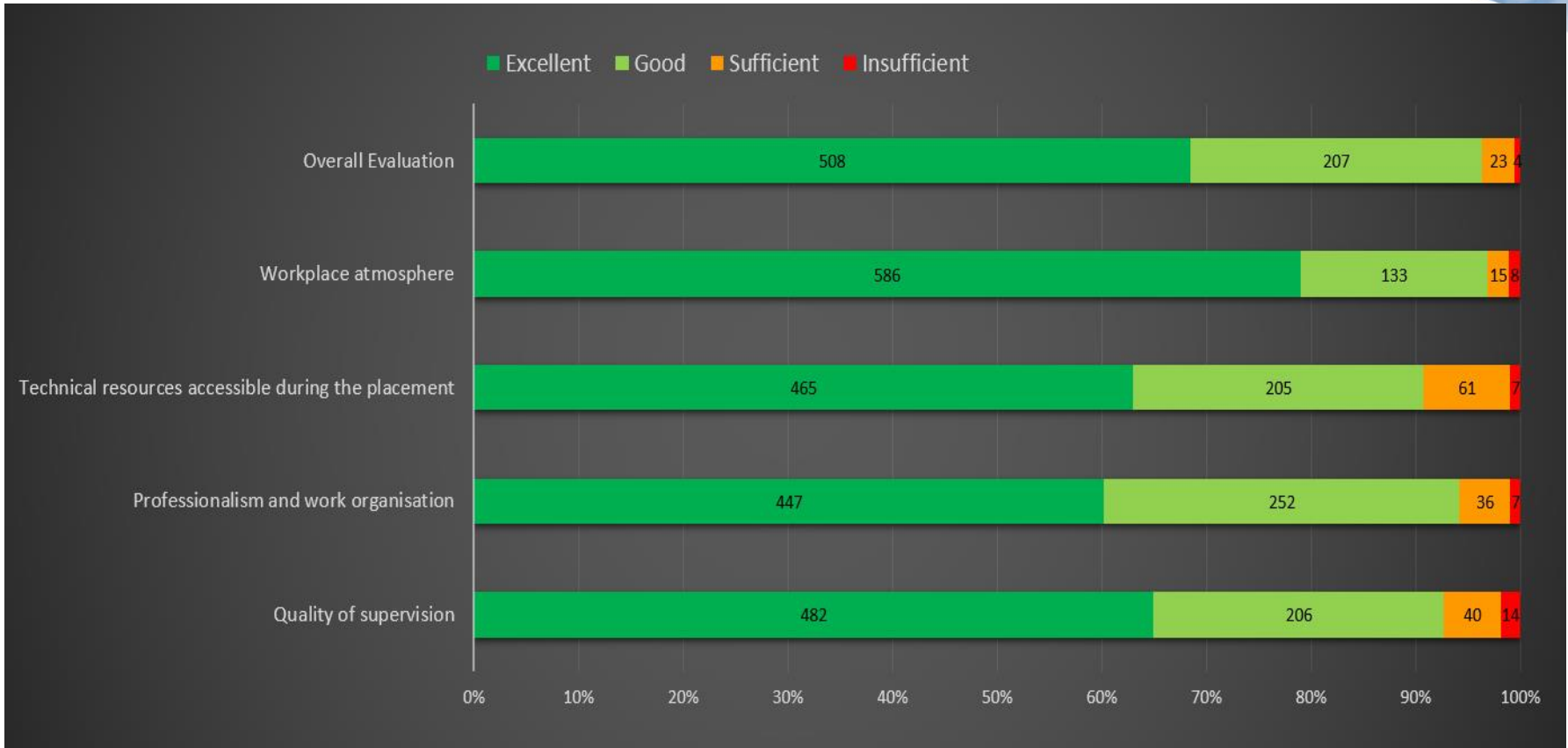


Student auto-evaluation (Years 2015-2018, 742 students)



Internship evaluations

Feedback on the host company by student
(Years 2015-2018, 742 students)



Internship evaluations

Company evaluation of the student
(Years 2015-2018, 742 students)



EPFL links to Industry



Top-Down



Vice Presidency for Innovation:

- Tech transfer
- Innovation Park
- Sponsored chairs
- Special programs
- Alliance



EPFL
Innovation Park

SWISS+
ROBOTICS
INDUSTRY
DAY

Career Center

- Alumni survey
- Jobs for Brains Recruitment platform
- Recrutement days
- Round tables
- Sponsorships
- EPFL Forum



SWISS+
SPACE center

EPFL Alumni

- Network
- Events
- Magazine



Section advisory boards

- Meeting ~every 2 years



Research labs; industrial projects

Master Thesis in Industry

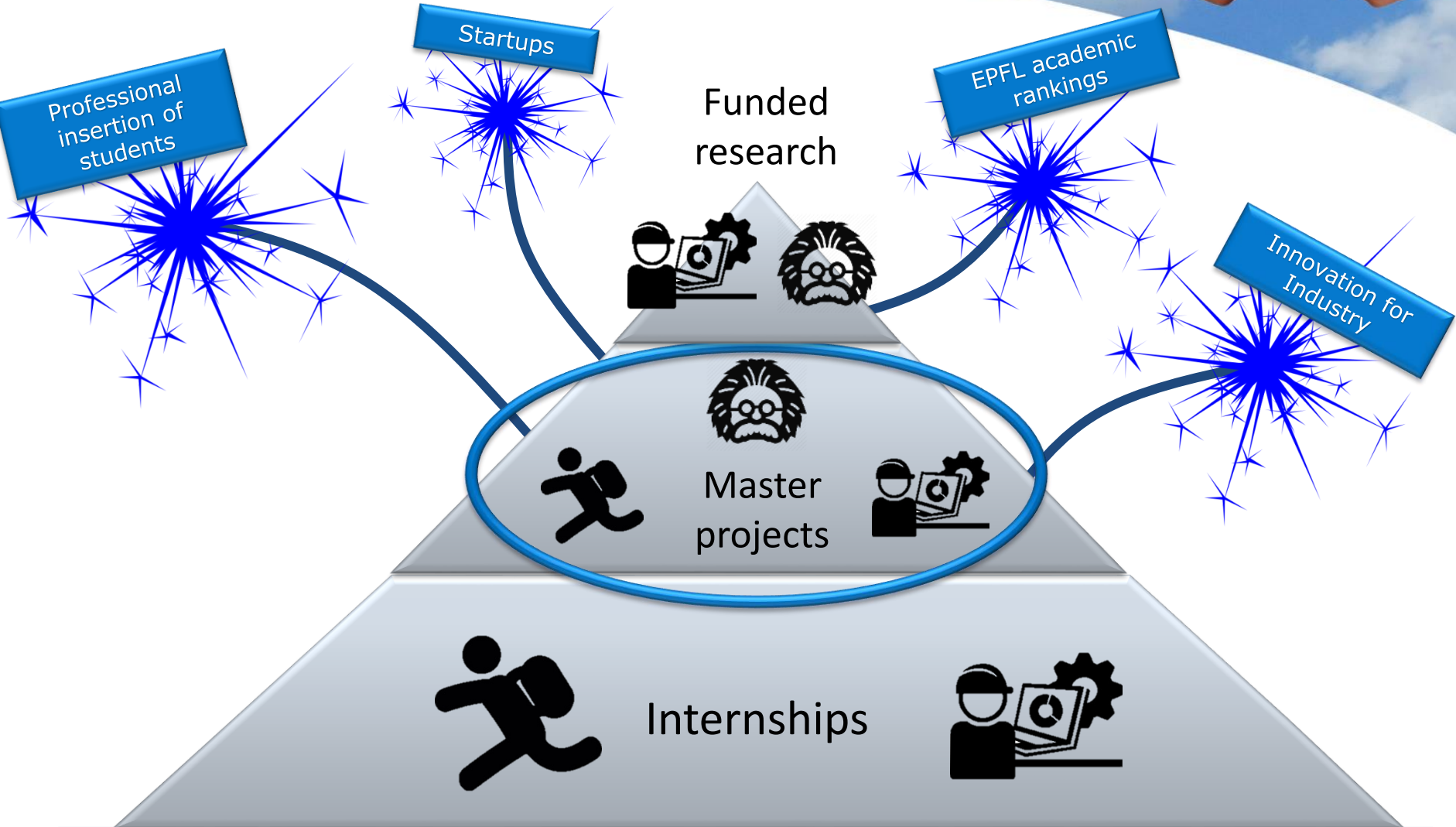
Internships in Master curriculum

1'200 EPFL
students
each year

Bottom-up



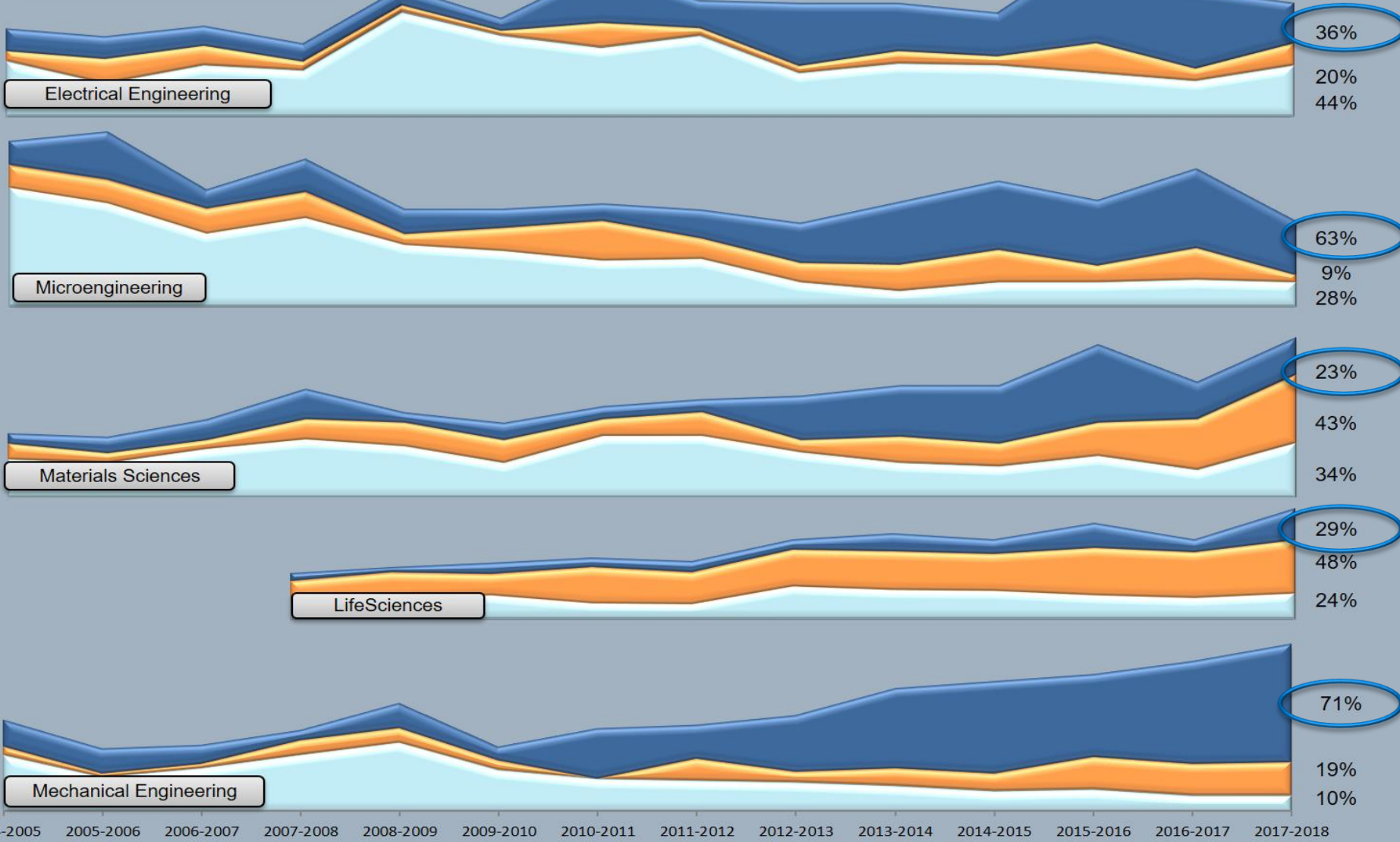
Value chain from internships to industry funded research



Location of Master Project since 2004



In Industry
Other Universities
@ EPFL



2004-2005 2005-2006 2006-2007 2007-2008 2008-2009 2009-2010 2010-2011 2011-2012 2012-2013 2013-2014 2014-2015 2015-2016 2016-2017 2017-2018

**Save the date:
STI-SV Industry Day**

Wednesday March 20th 2019



STI-SV Industry Day: Thursday March 20th 2019



8h30 - 9h00	Enregistrement et café							
9h00 - 9h05	Message de Bienvenue							
9h05 - 9h20	Keynote académique (MIT, ?)							
9h20 - 9h30	Info stages et projets de masters							
9h30 - 10h30	10 présentations académiques Engineering for life science and health Robotics and Manufacturing							
10h30 - 11h15	Pause café et expo industrielle							
11h15 - 12h15	10 présentations académiques Data enabled Engineering Materials and Processes							
12h30 - 13h45	Lunch et expo industrielle							
13h45 - 13h50	Introduction au programme de l'après-midi							
13h50 - 15h15	15 présentations industrielles Entreprises, start-ups et organisations Témoignages de projets d'étudiants	<table border="1"> <tr> <td>14h00 - 14h30</td> <td>Entretiens individuels 1</td> </tr> <tr> <td>14h30 - 15h00</td> <td>Entretiens individuels 2</td> </tr> <tr> <td>15h00 - 15h30</td> <td>Entretiens individuels 3</td> </tr> </table>	14h00 - 14h30	Entretiens individuels 1	14h30 - 15h00	Entretiens individuels 2	15h00 - 15h30	Entretiens individuels 3
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15h00 - 15h30	Entretiens individuels 3							
15h15 - 16h00	Pause café et expo industrielle							
16h00 - 17h25	15 présentations industrielles Entreprises, start-ups et organisations Témoignages de projets d'étudiants	<table border="1"> <tr> <td>16h00 - 16h30</td> <td>Entretiens individuels 4</td> </tr> <tr> <td>16h30 - 17h00</td> <td>Entretiens individuels 5</td> </tr> <tr> <td>17h00 - 17h30</td> <td>Entretiens individuels 6</td> </tr> </table>	16h00 - 16h30	Entretiens individuels 4	16h30 - 17h00	Entretiens individuels 5	17h00 - 17h30	Entretiens individuels 6
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16h30 - 17h00	Entretiens individuels 5							
17h00 - 17h30	Entretiens individuels 6							
17h25 - 17h30	Clôture de la journée							
17h30 - 19h00	Apéro et expo industrielle							

Présentations académiques

Session1: Engineering for life science and health
 Stéphanie Lacour – Lab for soft bioelectronic interfaces
 Diego Ghezzi – Medtronic chair in neuroengineering
 Sebastian Maerkl – Lab. of biological network characterization
 Hatice Altug – Bionanophotonic systems lab.
 Auke Ijspeert – Biorobotics lab.

Session 2: Robotics and Manufacturing
 Vivek Subramanian – Subramanian group
 Yves Bellouard – Galatea lab.
 Selman Sakar – Microbiorobotic systems lab.
 Jamie Paik – Reconfigurable robotics lab.
 Guillermo Villanueva – Advanced nanomechanical systems lab.

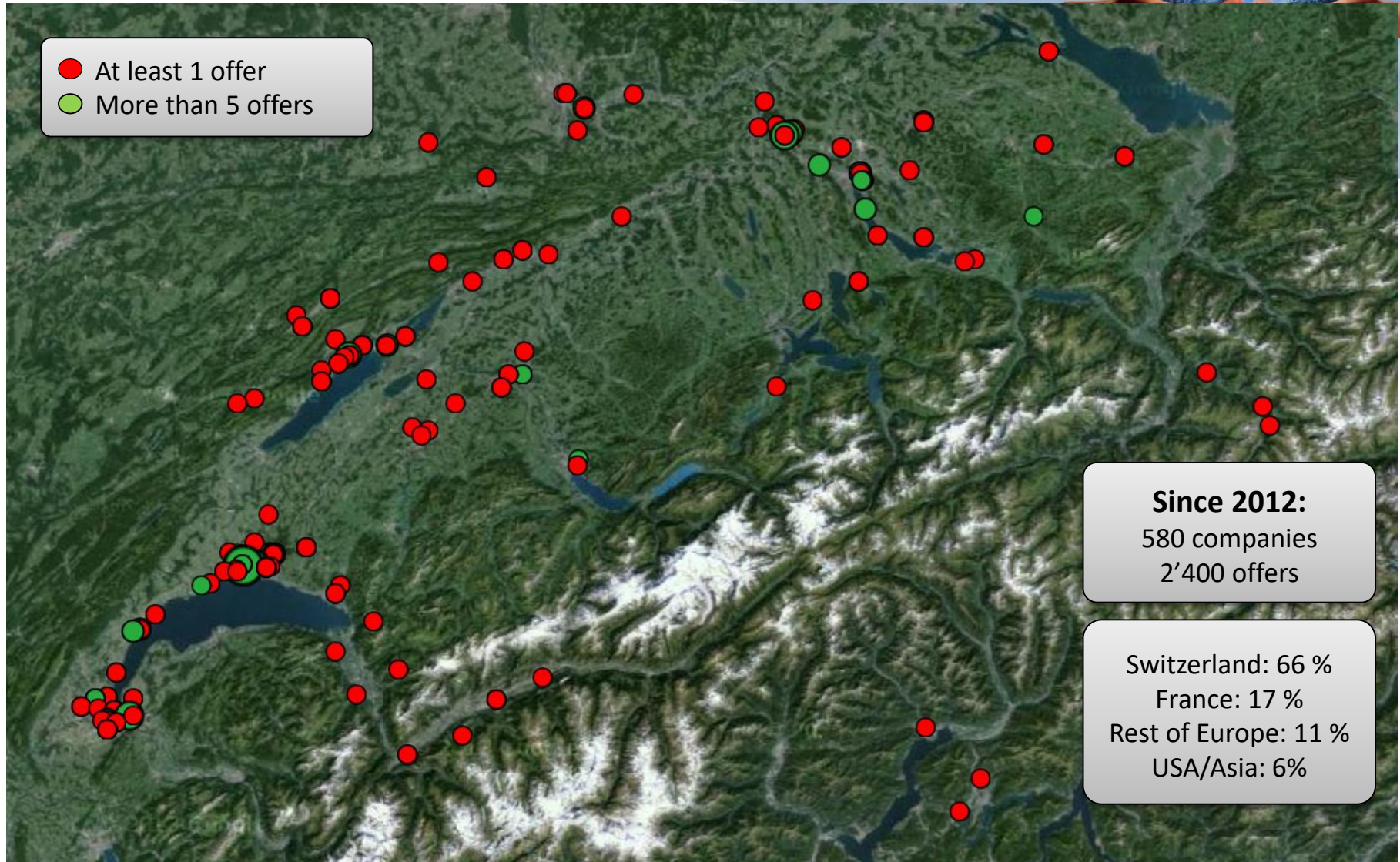
Pause café et expo industrielle

Présentations académiques

Session 3: Data enabled Engineering
 Volkan Cevher – Lab. for information and interference systems
 Aude Billard – Learning algorithms and systems lab.
 Pascal Frossard – Signal processing lab. 4
 Van de Ville – Medical image processing lab.
 David Atienza – Embedded systems lab.

Session 4: Materials and Processes
 Fabien Sorin – Lab. of photonic materials and fibre devices
 Yves Leterrier – Lab. of processing and advanced composites
 John Kolinski – Engineering Mechanics of Soft Interfaces
 Esther Amstad – Soft materials lab.
 Pedro Reis – Flexible structures lab.

STI Internship offers between 2012 and 2016

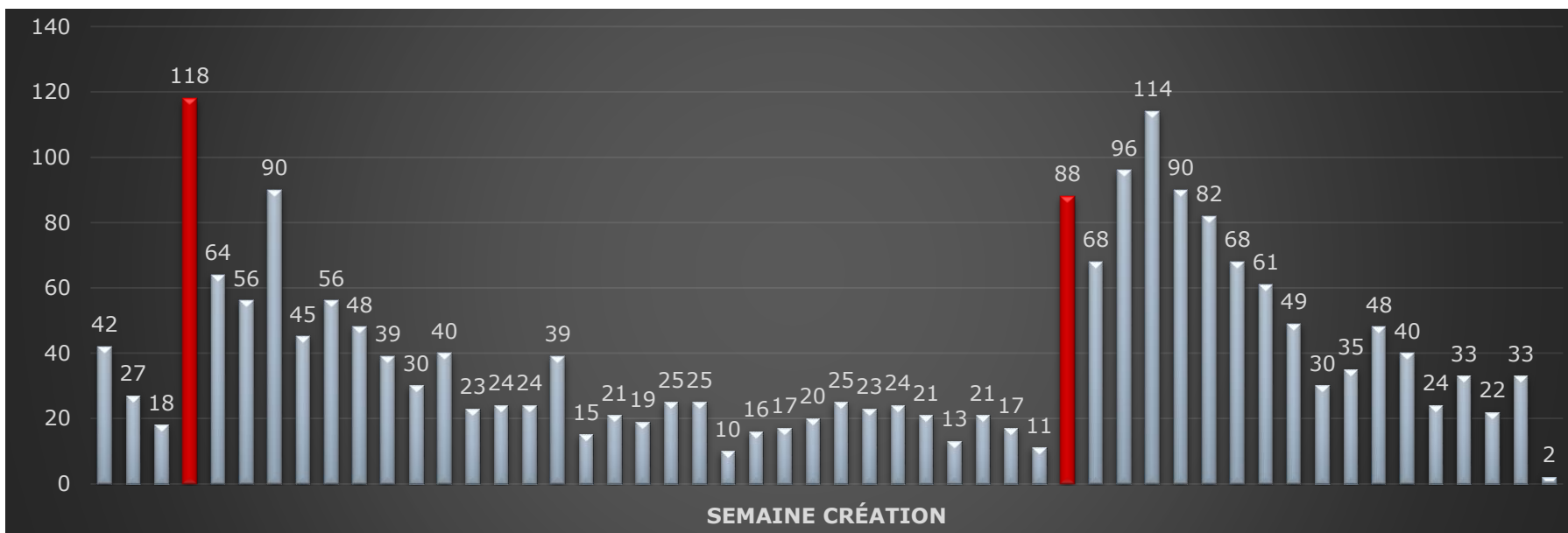


Internship Postings on EPFL Portal: Over 2000 Offers in 2016



In 2017:

Electrical Engineering:	593 offers (+19% vs 2016)
Mechanical Engineering:	386 offers (+15% vs 2015)
Microengineering:	527 offers (+26% vs 2015)
Materials Sciences:	356 offers (+10% vs 2015)



↑
February

↑
September



Internship countries of STI students



	STI				Somme :
	EL	GM	MT	MX	
Suisse	107	178	156	104	545
France	11	28	5	6	50
Allemagne	11	7	5	4	27
Etats-Unis	4	2	10		16
Belgique	3		4	3	10
Chine	3	1	4	2	10
Pays-Bas	3	2		4	9
Japon	1	2	3	1	7
Suède	1	4			5
Brésil		1	3		4
Cameroun	1	1	2		4
Espagne		2	1	1	4



Information and contacts



- For additional information, please visit the internship pages of SGM:
<http://sti.epfl.ch/page-59842-en.html>

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



Sebastian Gautsch
STI
Internship Coordinator



Alain Prenleloup
SGM
Adjunct to section director



Anne Mireille Legrand
SGM
Administration

Questions ?



Thank you for your attention

