



UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Barcelona School of Informatics

FIB

FIB Masters

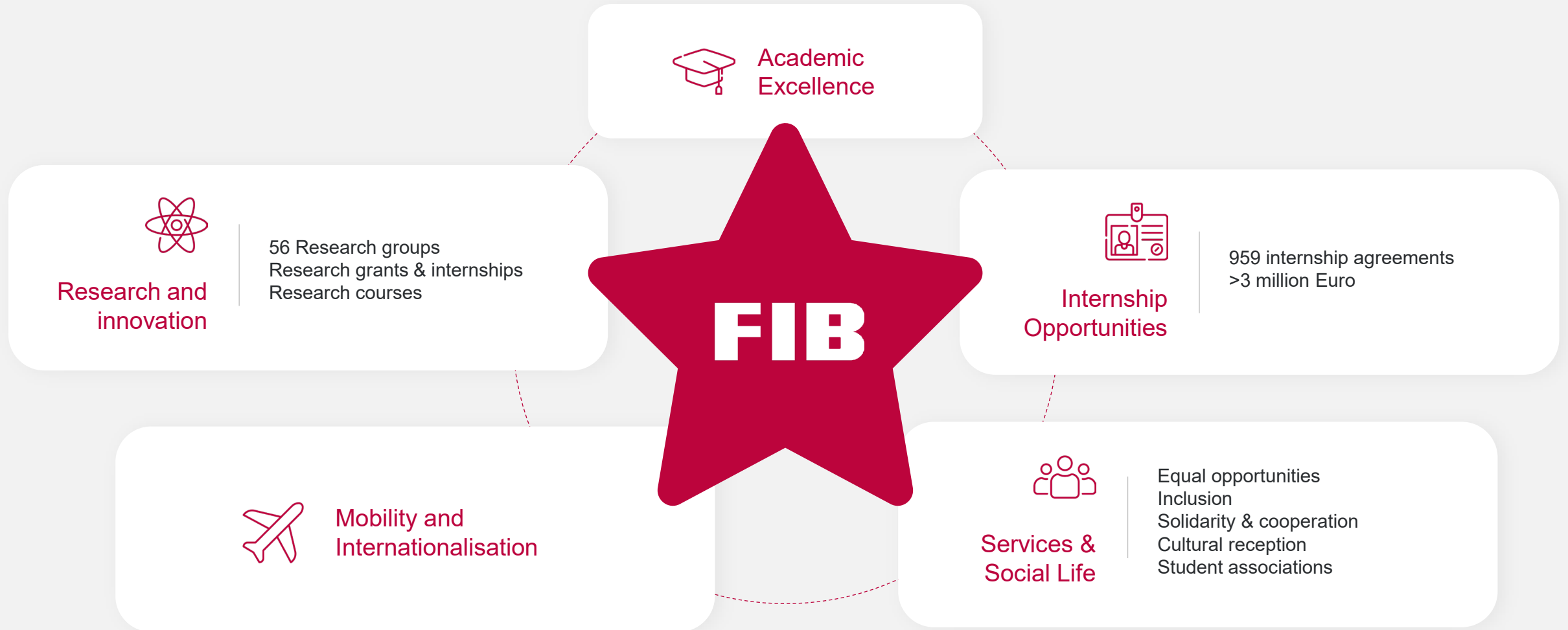


fib.info.masters@upc.edu

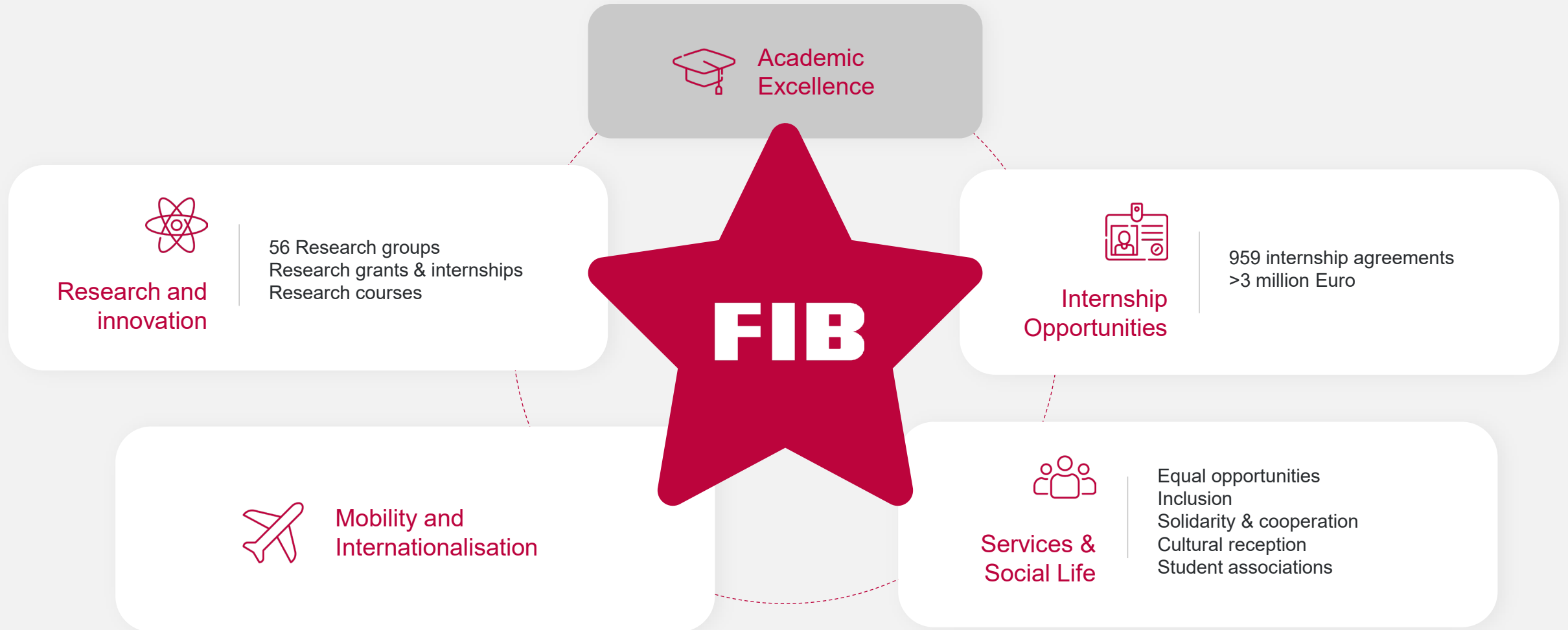
Oscar Romero

Vice dean of Postgraduate Studies

FIB Excellence



FIB Excellence



Barcelona School of Informatics

The leading center for Computer Science studies.



Top 10

Computer Science Schools in Europe

Equipped with the right resources, expert teaching staff, and years of experience, we offer a diverse array of high-value courses

Social impact: our graduates are top-tier professionals, in high demand by organizations driven by innovation and growth

A pioneering school in higher education that has spearheaded Catalonia's progress in this field

Leading the way since 1977

The FIB has been a benchmark centre since its inception in and the launch of its academic programmes in the 1976-1977 academic year

50 years of excellence in Bachelor's, Engineering, and Master's studies

As part of the UPC, we are responsible for the official degree programmes in Computer Engineering



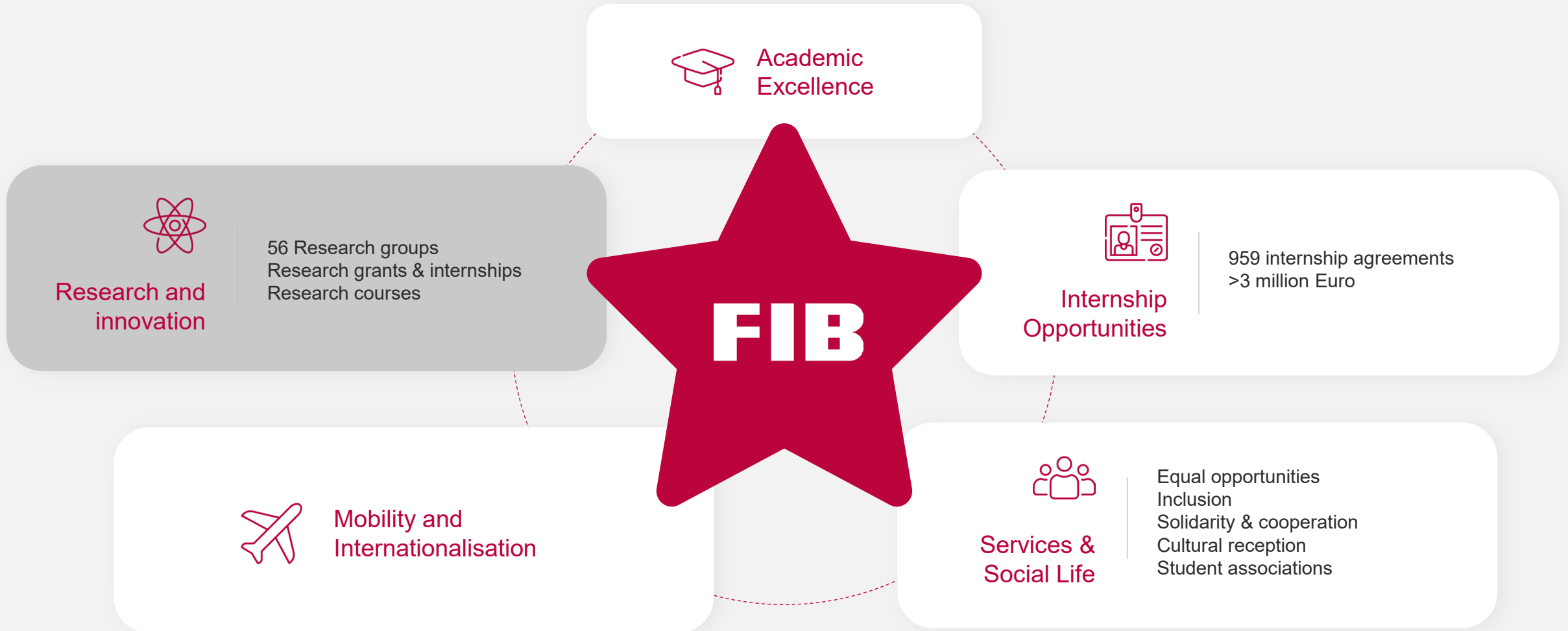
Trained here.

Leading the companies that change the world.



and more...

FIB Excellence



Research & Innovation



UPC, and FIB specifically, is a leading research institution.

- ✓ Top university obtaining Horizon Europe projects
- ✓ Start-ups, spin-offs, innovation and technology transfer

Our Research →



One strong aspect of our masters is that our teaching staff are also **researchers** with wide experience on the topics they teach.

- ✓ Belong to different departments and research group
- ✓ Have strong networks with researchers all over the world



Our research groups belong to 8 transversal departments.

- Mathematics (MA)
- Business Administration (OE)
- Computer Architecture (AC)
- Physics (FIS)
- Services and Information Systems Engineering (ESSI)
- Computer Science (CS)
- Statistics and Operational Research (EIO)
- Systems Engineering, Automatic Control and Industrial Informatics (ESAI)



Barcelona Supercomputing Centre

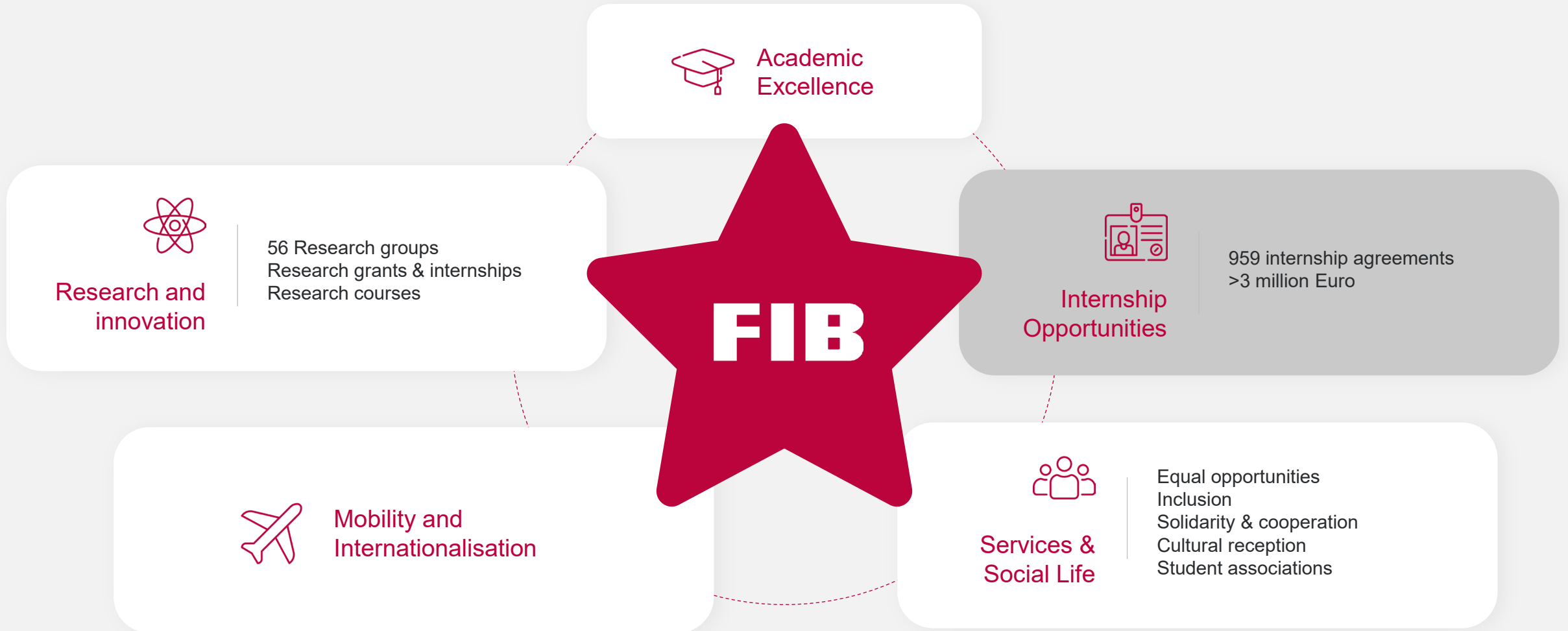
Large flow of Master students



Internships

Final Thesis

FIB Excellence



Internships



Total hour requirements

- ✓ Maximum per academic year: 900 hours
- ✓ Maximum per degree:
 - MEI, MAI: 900 hours
 - MIRI, MDS: 1.200 hours
- ✓ Minimum per agreement: 180 hours



Hourly rate

- ✓ Company: minimum 11€ gross/hr
- ✓ UPC: 8€ gross/hr

In any case: maximum 20€ gross/hr



Barcelona Tech Hubs

The hub ecosystem in Catalonia

203 tech hubs

Active as of 2025

Regional economic impact

4.109 M€

20 million per hub

Hub ecosystem in Catalonia

54M€ Economic contribution

609 Jobs created

Jobs created in 2025

4.433 New jobs

Total 46.080 employees

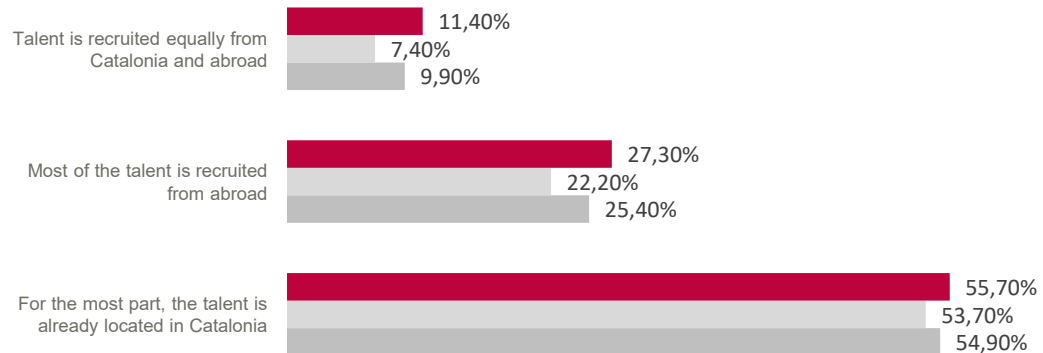
Top 10 professions IT in hubs

- | | |
|--------------------------|----------------------|
| 01 Software Engineers | 06 Game Devs |
| 02 IT Consultant | 07 Business Analysts |
| 03 Cybersecurity Analyst | 08 Data Scientists |
| 04 SAP Experts | 09 Data Engineers |
| 05 Data Analysts | 10 DevOps Engineers |

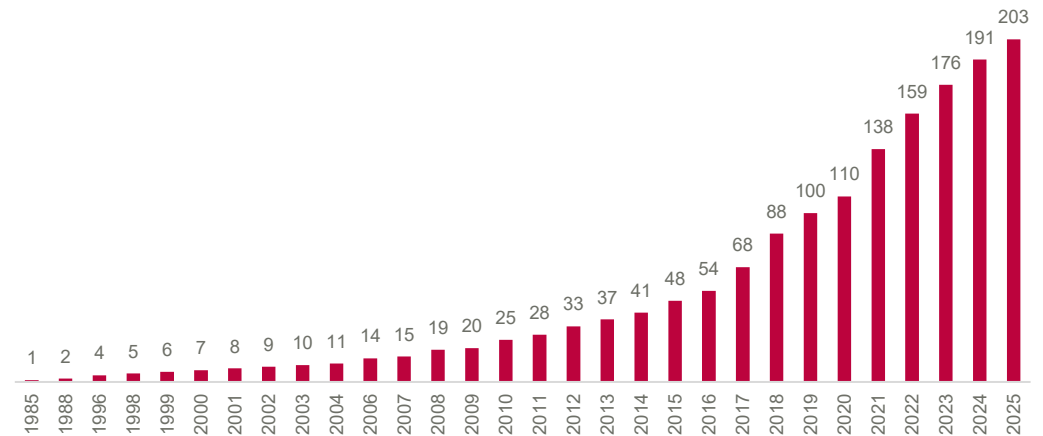
Most in-demand and hardest-to-fill roles

- 01 **37,5%** AI & Machine Learning Engineers
- 02 **25%** Cloud Architects / Engineers
- 03 **22,1%** Data Scientists & Data Architects
- 04 **16,3%** Cybersecurity Experts / Specialist

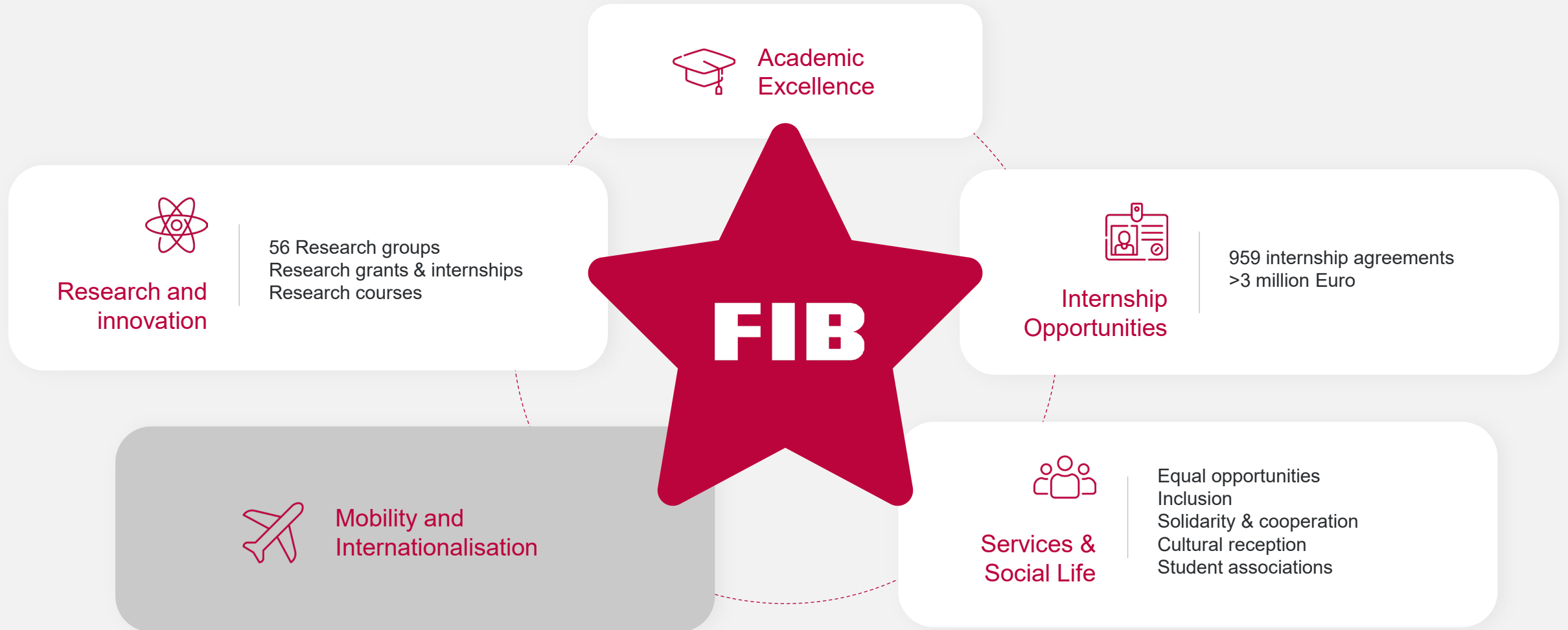
Where does the talent in Catalonia's tech hubs come from?



Catalonia's tech hub ecosystem: evolution and trends



FIB Excellence



#fibersworldwide

138

Universities

43

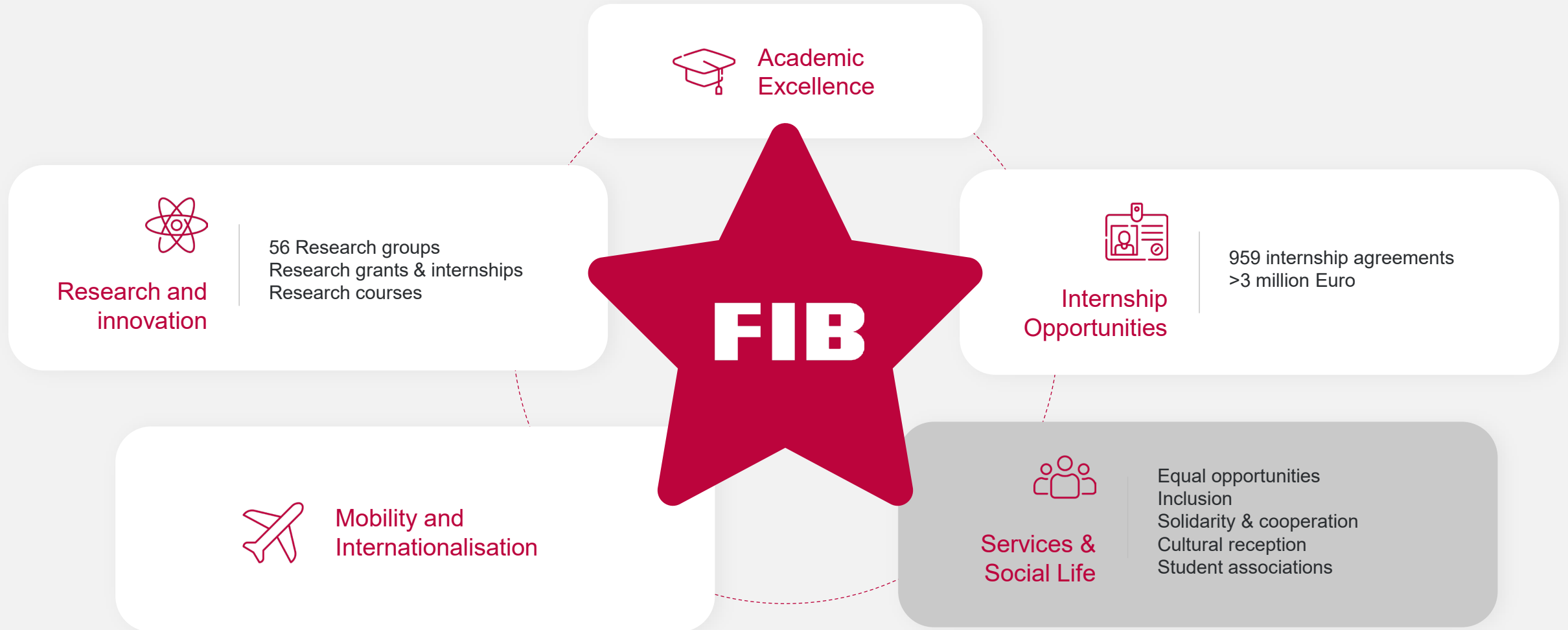
Countries

10

Double Degrees

“This exchange was a once-in-a-lifetime experience. I made great friends, matured personally, and lived through moments that wouldn't have been possible otherwise.”

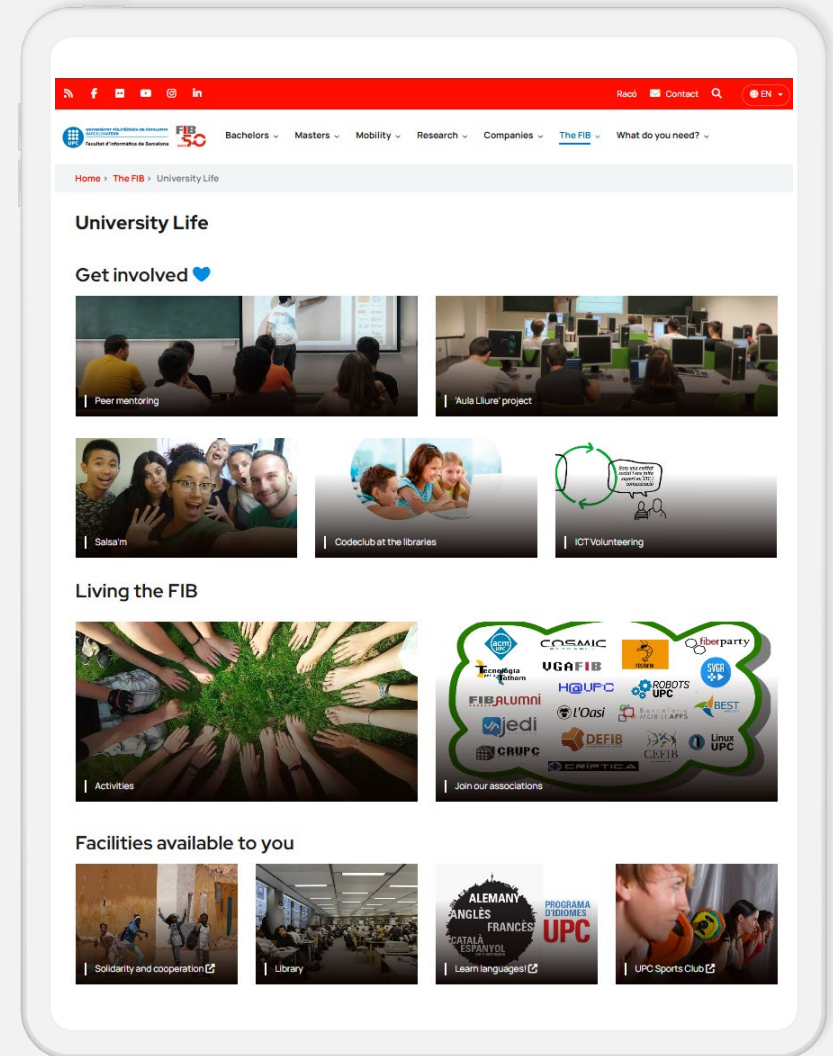
FIB Excellence



University Life




[Learn more about FIB promoted social activities](#)

Events

Twelfth European Big Data Management & Analytics Summer School (eBISS 2024)
 July 1 - July 5, 2024 | Padova, Italy

HACKATHON
 PER LES MALALTIES RESPIRATÒRIES
 13-14-15 de setembre de 2024
 #bitsxLaMarató
 Fes el teu donatiu

La Marató

MWC
 GSMA



EDBT
ICDT
 BARCELONA 2025




ADVANCED FACTORIES
 EXPO & CONGRESS

A new age in automation technology
 18-20 abril 2023 | Fira de Barcelona
 www.advancedfactories.com





Top Rosies Talent


Top Rosies Talent

ACM Europe Summer School on HPC Computer Architectures for AI and Dedicated Applications


2-6 September 2024


Hosted by BSC-CNS & UPC


Abba Garden Hotel

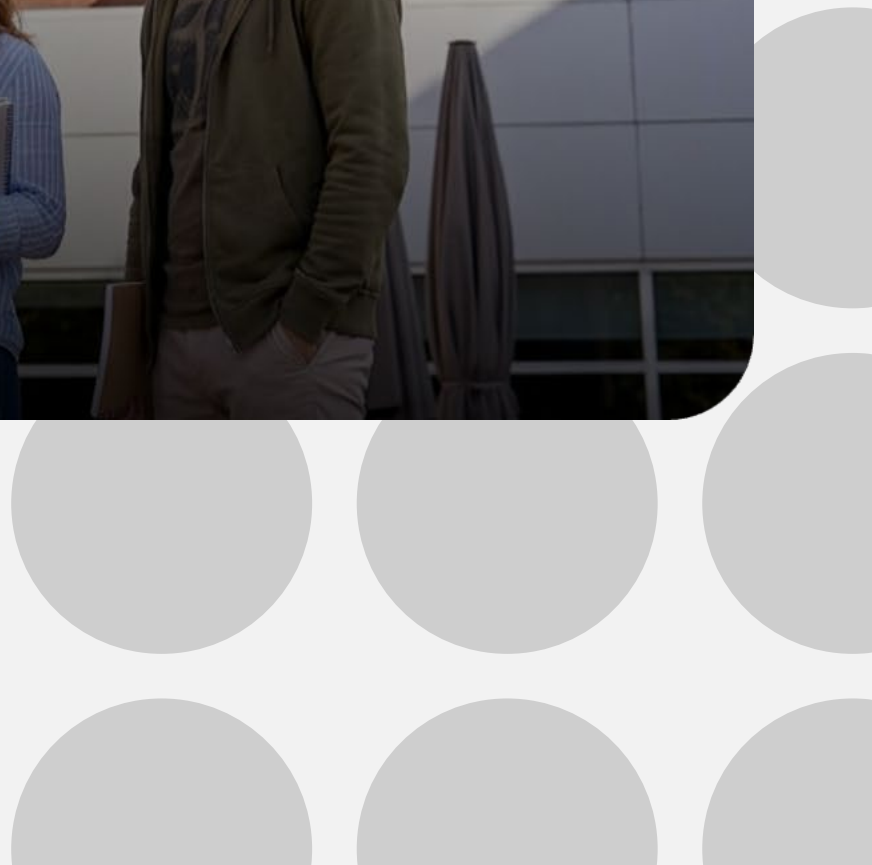




Quick Summary

FIB Masters

**MEI, MIRI, MDS, MAI (plus DEAI
and EU4HPC)**



FIB Masters

MEI

MIRI

EU4HPC

MDS

DEAI

MAI

FIB Masters

Master in Artificial
Intelligence (MAI)



Master in Informatics
Engineering (MEI)



Master in Data Science
(MDS)



Master in Innovation and
Research in Informatics
(MIRI)

- Advanced Computing
- Computer Graphics and Virtual Reality
- Computer Networks and Distributed Systems
- High-Performance Computing



EU Master in High
Performance Computing
(EU4HPC)



Erasmus Mundus Master in
Data Science and Artificial
Intelligence (DEAI)



Learn more

<https://www.fib.upc.edu/en/masters/do-you-want-study-master-degree/masters-information-sessions>

MEI: Master in Informatics Engineering

The master's degree equips graduates with knowledge and hands-on experience across a wide spectrum of information technology domains: from cloud computing to security and from computer graphics to information systems, with a focus on IT management and leadership.

Graduates become the “Swiss Army knife” of IT in their organizations.

- This degree is equivalent to the former *Enginyer en Informàtica*
- Accreditations: EQUAINE, AQU-Excellence
- Language: Spanish / Catalan (B2)
 - Some courses are taught in Catalan and some in Spanish
 - Support to Spanish-speaking students to learn basic Catalan to follow the lectures
- 90 ECTS : 1.5 years – Strong professional orientation
 - 45 Compulsory (36 IT, 9 Management)
 - 15 Elective (3 ECTS on Management)
 - 30 Master thesis
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required



AQU Catalunya està inscrita a EQAR



MIRI: Master in Innovation and Research in Informatics

This master offers a strong and rigorous background in research and innovation in 4 fields of informatics:

- Advanced Computing (AC),
 - Computer Graphics and Virtual Reality (CGVR),
 - Computer Networks and Distributed Systems (CNDS),
 - High-Performance Computing (HPC).
- Accreditations: EQUAINE, AQU-Excellence
 - Language: English (B2)
 - 120 ECTS: 2 years
 - 30 Common compulsory
 - 48 Specialisation (4 specialisations)
 - 12 Electives
 - 30 Master thesis
 - 4 Specialisations:
 - AC: <https://masters.fib.upc.edu/masters/miri-advanced-computing>
 - CGVR: <https://masters.fib.upc.edu/masters/miri-computer-graphics-and-virtual-reality>
 - CNDS: <https://masters.fib.upc.edu/masters/miri-computer-networks-and-distributed-systems>
 - HPC: <https://masters.fib.upc.edu/masters/miri-high-performance-computing>
 - Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
 - Complementary courses might be required



AOU Catalunya està inscrita a FOAR



FIB Masters

MEI

MIRI

EU4HPC

MDS

DEAI

MAI

EU4HPC (MIRI-HPC track)

- European Master for High Performance Computing
- Coordinated by Université du Luxembourg and 7 additional European Universities: UPC, Politecnico de Milano, Friedrich-Alexander Universität Erlangen-Nurnberg, Sorbonne Université, Sofia University, Università della Svizzera Italiana, Kungliga Tekniska Högskolan
- Implemented as dual degree
- Consortium grants: fee waiving (for eligible students) + mobility scholarship
- Accreditations: H2020 Framework Programme (EuroHPC)
- **Applications for the 2026 intake are not open yet. Stay tuned!**
- Application period
 - Meet the deadline to apply to EU4HPC (via their website)
 - In parallel, meet the deadline to apply to the local starter university
- 120 ECTS: 2 years
 - 12 months fundamental courses
 - 6 months specialization
 - 6 months internship
 - Mandatory summer school
 - Mobility scheme among partners according to academic paths identified



 [Learn more](https://eumaster4hpc.uni.lu/)
<https://eumaster4hpc.uni.lu/>

FIB Masters

MEI

MIRI

EU4HPC

MDS

DEAI

MAI

MDS: Master in Data Science

- This master offers a unique interdisciplinary syllabus to unlock data value in a systematic, rigorous and scalable manner
 - **Data Engineering:** end-to-end data lifecycle and infrastructure (data ingestion, integration, storage and processing), including distributed and Big Data architectures, data governance and scalability
 - **Data Analytics:** data analysis (Data Mining, Machine Learning, Representation Learning) and visualization
- Accreditations: Local implementation of the Erasmus Mundus Master in Big Data Management and Analytics (European reference programme in Data Science) – EACEA certified
- Language: English (B2)
- 120 ECTS: 2 years
 - 54 Compulsory
 - 36 Elective (among three blocks)
 - 30 Master thesis
- 3 main specialisation blocks:
 - Deep Dive in Specific Aspects of Data Science
 - Applications of Data Science for Specific Domains (e.g., Bioinformatics, Health, Transportation, etc.)
 - Innovation and Research
- Extracurricular internships and Curricular Master Thesis internships
- No complementary courses considered



FIB Masters

MEI

MIRI

EU4HPC

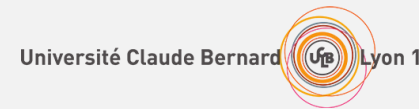
MDS

DEAI


MAI

EM DEAI: Data Engineering and Artificial Intelligence

- The Erasmus Mundus Joint Master in Data Engineering and Artificial Intelligence is the first programme to offer an in-depth focus on data-driven AI systems, emphasizing the central role of data in the development of artificial intelligence.
 - **Data Engineering:** end-to-end data lifecycle and infrastructure (data ingestion, integration, storage and processing), including distributed and Big Data architectures, data governance and scalability
 - **Artificial Intelligence:** data-centric AI for real-world impact



- Accreditations: European reference programme in Data Engineering and Artificial Intelligence – EACEA certified
- Language: English (B2)
- 120 ECTS: 2 years
 - 60 Compulsory
 - 30 Specialization
 - 30 Master thesis
- 3 specialisations:
 - Knowledge-Driven Data Management and Intelligence (TU Wien)
 - Data and Intelligence for Heterogeneous Systems (UCBL)
 - Business, Economics and Financial Data Science (Padova)

 [Learn more
https://deal.ulb.be/](https://deal.ulb.be/)




MAI: Interuniversity Master in Artificial Intelligence

- This master offers an integrative and cutting-edge approach to the field and its application to real scenarios



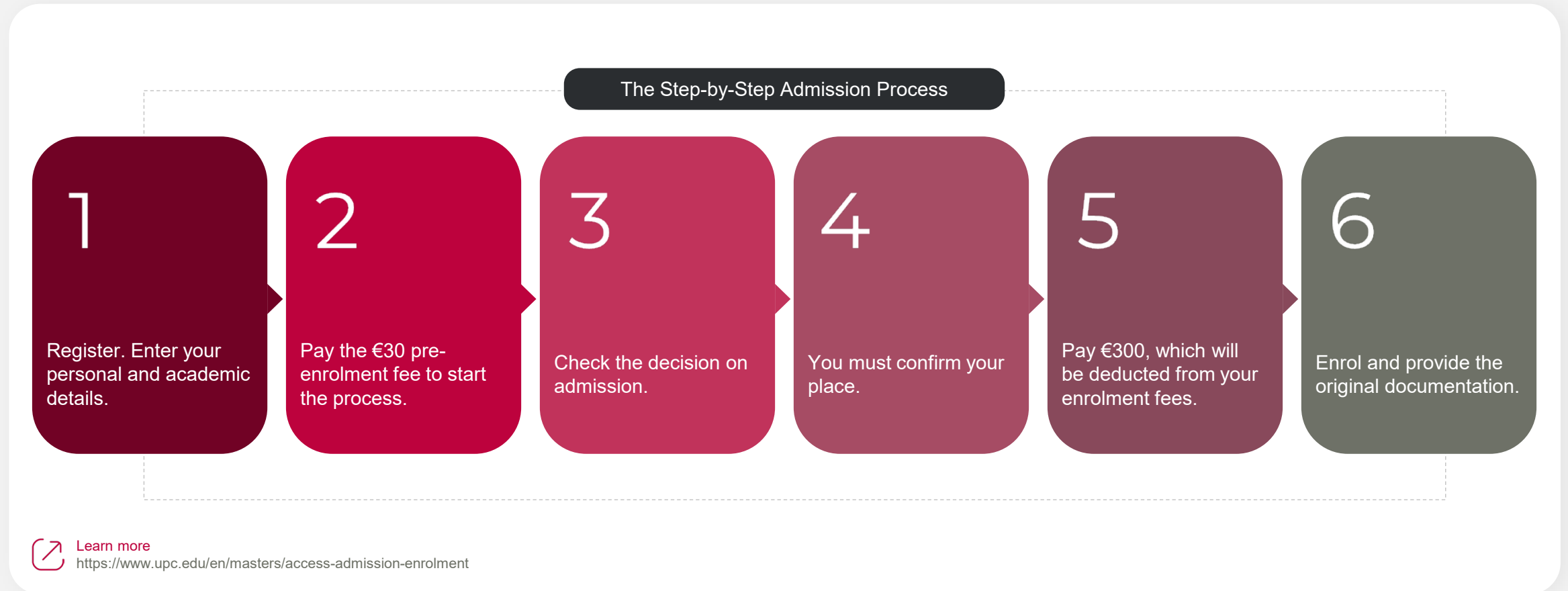
- Lectures in the three campuses (one day per week students must go to URV in Tarragona)
- Accreditations: AQU-Excellence, AQU-Internationalization
- Language: English (B2)
- 90 ECTS : 1.5 years
 - 30 Compulsory
 - 42 Elective (among the intensifications)
 - 18 Master thesis
- 7 intensifications (not chosen at admission time)
 - Data Science and Computational Intelligence;
 - Multi-Agent Systems;
 - Human-Computer Interaction;
 - Hot Topics in AI and Professional Practice;
 - Knowledge Engineering and Machine learning;
 - Modeling, Reasoning and Problem Solving;
 - Vision, Perception and Robotics. Assistive Technologies
- Industrial Agreements – Curricular Internships, Professional Experience (elective ECTS)
- Complementary courses might be required



 [Learn more](https://www.fib.upc.edu/en/masters/master-artificial-intelligence)
<https://www.fib.upc.edu/en/masters/master-artificial-intelligence>

Procedure

Interested in our masters? This is the procedure to follow.



Important Dates



Admission: From 25th February to 29th May 2026



Two (three) admission periods:

First period:

- Deadline to apply: 17th April 2026
- Tentative admission notification: 30th April 2026

Second period:

- Deadline to apply: 29th May 2026
- Tentative admission notification: 19th June 2026

Third period:

- Not guaranteed, only if seats available
- Tentative deadline: 30th June 2026
- Tentative admission notification: 7th July 2026



Check the specific website of each master to know about its admission criteria:

<https://www.fib.upc.edu/en/masters>

Admission

01

Depending on your application date, your application will be evaluated during either the first or the second admission period.

02

Evaluation outcome:

Accept, Reject, Postpone (1st round) or Waiting list (2nd round)

Postponed applications get their final decision during the second period.
Waiting list applications are contacted in order if drop outs happen.
Rejected applications are not accepted to follow that programme.

03

Accepted applications are contacted and informed about all relevant academic information as how to register, academic calendar, schedule of classes and exams, etc.

- All this information is already available at FIB Website.
- Before registration, you must pay €300€ (tax) to guarantee your place (later deduced from the registration cost).



Administrative and Academic Contacts

General

Information

✉ fib.info.masters@upc.edu

Specific Academic Questions

MAI

Ulises Cortés

✉ ia@cs.upc.edu

MEI, DEAI

Òscar Romero

✉ vd.postgrau.fib@upc.edu

MDS

Anna Queralt

✉ anna.queralt@upc.edu

MIRI-AC

Amalia Duch

✉ amalia.duch@upc.edu

MIRI-CGVR

Nuria Pelechano

✉ npelechano@cs.upc.edu

MIRI-CNDS

José M. Barceló

✉ joseb@ac.upc.edu

MIRI-HPC, EU4HPC

Josep Llosa

✉ josepll@ac.upc.edu

2025-2026 Prices

European Union resident Applicants

- MEI: 17,69 € / ECTS
- MIRI, MDS, MAI, EU4HPC: 19,37 € / ECTS
- DEAI: 75 € / ECTS

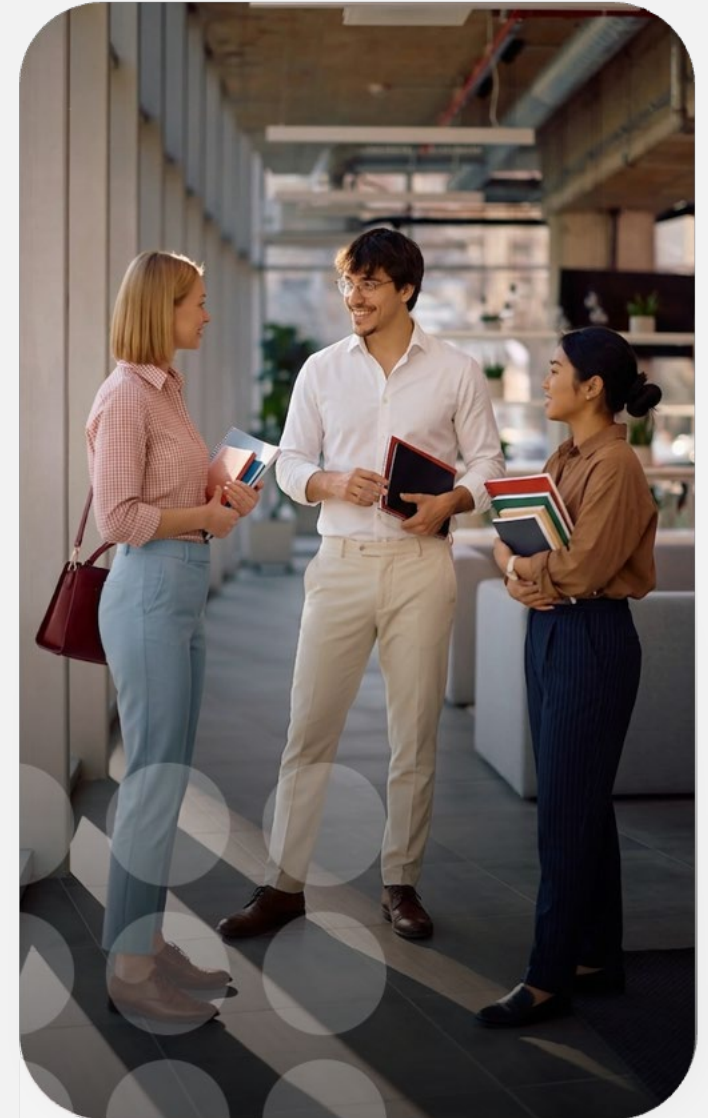
Non-European Union resident Applicants

- MEI, MIRI, MDS, MAI, EU4HPC: 45 € / ECTS
- DEAI: 150 € / ECTS

Note:

Prices for 2026-2027 will be published in July. Once published, UPC list the prices here:

<https://www.upc.edu/en/masters/fees-grants>



Services

Equal Opportunities



- Bullying
- Gender Equality
- Transgender Community

Learn More →

Solidarity and Cooperation



Learn More →

Libraries



Learning Languages



Learn More →

Sports Club



Inclusion



- Learning Needs
- Teaching Support
- Psychologic orientation

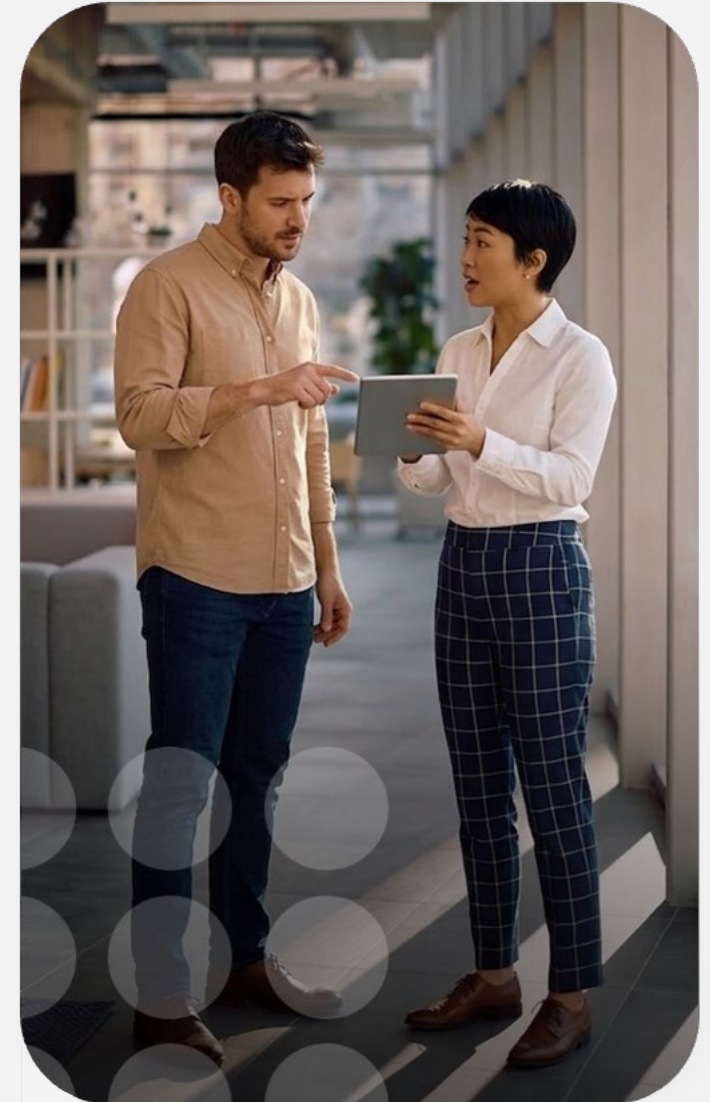
Learn More →


Cultural Reception



Learn More →

UPC Arts



 Learn more
<https://www.upc.edu/en/university-life-and-services>

FAQs

FAQ

If I'm finishing my undergraduate studies this year, can I apply to a master?

Yes, you can be admitted. You only need to complete your registration by September. In fact, even if you finalize your bachelor's thesis in October, you may still be eligible for admission to our master's programmes. Please contact us for further details.

FAQ

Can I work and study at the same time?

Yes, there are several opportunities to undertake curricular and extracurricular internships in companies, which may also allow you to earn elective ECTS credits (check the specific requirements per programme). Additionally, all our master's programmes can be pursued on a part-time basis.

FAQ

For new incoming students... what about enrolment?

Registration is completed online. If you are required to submit any documentation, you may do so at a later stage, provided it is submitted before the start of the lectures.



Do you have further
questions?

Do not hesitate to contact us at
fib.info.masters@upc.edu