Oscar Romero
Vice-dean of Postgraduate Studies

info.masters@fib.upc.edu
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FIB:
Facultat d’Informàtica de Barcelona

Universitat Politècnica de Catalunya (UPC-BarcelonaTech)
About UPC

Universitat Politècnica de Catalunya (UPC-BarcelonaTech) is a public higher education and research institution that is specialised in the fields of architecture, science and engineering and one of the leading technical universities in Europe.

Every year, more than 6,000 bachelor’s and master’s students and more than 500 doctoral students graduate.

UPC values:

- Social responsibility
- Sustainability
- Equal opportunities
- Cooperation and solidarity
## UPC Main Indicators

<table>
<thead>
<tr>
<th>UPC Community</th>
<th>Knowledge</th>
<th>UPC in the world</th>
</tr>
</thead>
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<tr>
<td>24,356 bachelor’s students</td>
<td>67 bachelor’s degrees 2024-2025</td>
<td>5,119 students participating in educational cooperation agreements with companies</td>
</tr>
<tr>
<td>6,081 master’s degree students</td>
<td>91 master’s programmes 2024-2025</td>
<td>18 company chairs</td>
</tr>
<tr>
<td>2,104 doctoral degree students</td>
<td>45 doctoral programmes 2024-2025</td>
<td>13 companies set up last year</td>
</tr>
<tr>
<td>2,978 lifelong learning students</td>
<td>240 continuing education programmes</td>
<td>2,834 companies and other entities that have signed collaboration agreements with the UPC</td>
</tr>
<tr>
<td>3,629 teaching and research staff members</td>
<td>13 patents</td>
<td>44 international double-degree agreements with 30 universities</td>
</tr>
<tr>
<td>1,989 administrative and service staff</td>
<td>41 technology companies in which the UPC has a shareholding</td>
<td>2,940 students in international mobility programmes</td>
</tr>
<tr>
<td>87,538 UPC alumni members</td>
<td>234 scientific and technical awards received</td>
<td>1,414 UPC students (outgoing)</td>
</tr>
<tr>
<td>294 doctoral theses defended</td>
<td>2,362 articles published in scientific journals</td>
<td>1,526 mobility students at the UPC (incoming)</td>
</tr>
<tr>
<td>2,487 graduates of master’s degrees</td>
<td>€80,914,453 turnover for R&amp;D projects (2022)</td>
<td>54 development cooperation projects</td>
</tr>
<tr>
<td>3,449 graduates of bachelor’s degrees</td>
<td></td>
<td>15 international networks with the UPC as a member</td>
</tr>
</tbody>
</table>

### UPC in the world

- 5,119 students participating in educational cooperation agreements with companies
- 18 company chairs
- 13 companies set up last year
- 2,834 companies and other entities that have signed collaboration agreements with the UPC
- 44 international double-degree agreements with 30 universities
- 2,940 students in international mobility programmes
- 1,414 UPC students (outgoing)
- 1,526 mobility students at the UPC (incoming)
- 54 development cooperation projects
- 15 international networks with the UPC as a member
- 4 UNESCO chairs
About FIB

The Facultat d'Informàtica de Barcelona (Barcelona School of Informatics) belongs to UPC and it is the reference centre for Informatics studies since its inception in 1976, and the beginning of the educational activities during 1977-1978.

Throughout these 40 years, the faculty has been in charge of the bachelor’s degree, diploma courses, technical engineering and master degrees and currently the formal qualifications in the field of Computer Science and related subjects.
FIB: Where?

Address
B6 Building at Campus Nord
Jordi Girona street, 1-3
08034 Barcelona

Contact
Email: Info.masters@fib.upc.edu
Web: http://www.fib.upc.edu/

Social Networking
https://www.facebook.com/fib.upc
https://twitter.com/fib_upc
https://www.youtube.com/user/mediafib
https://www.instagram.com/fib.upc/
FIB: Mission

• Provide education on informatics engineering
  • Promote the dissemination of information technologies to contribute to society improvements
  • Provide a strong background to our students that will be used throughout their professional life

• Prioritizing lasting concepts
  • Applied knowledge

• Promoting effective working habits, excellence and team working

• Stimulating their students' ability of self-sufficiency
FIB: Quality Indicators

Our masters are externally evaluated and certified with the maximum quality labels by international and national evaluation organisms

• FIB established the processes and mechanisms to implement Internal Quality Assurance System (IAQS). This accreditation process is carried out by quality agencies such as AQU/ENQA and allows supervising the performance of studies and informs the society about its quality.
  • MEI, MIRI and MAI obtained the maximum quality label AQU-Excellence
  • MDS started in September 2021 and has not been externally evaluated yet. Relevantly, MDS is the local counterpart of the BDMA Erasmus Mundus master which is certified by the European Education and Culture Executive Agency (EACEA) as an excellence and reference programme.

• What aspects do quality agencies highlight about our masters:
  • Programme learning outcomes
  • Teaching staff
  • Learning support services and resources
FIB: Why?

- It is one of the top 10 computer science schools in Europe. We have the resources, professors and experience to offer a wide range of high-value courses.
- It is a pioneering school at university-level in Informatics in Spain and has been spearheading Catalonia’s progress in the field since 1977. Its contribution to society can clearly be seen in the number of top-quality professionals it has produced, who are required by organizations that seek to innovate and make progress.
- Excellence quality certified by external and independent quality agencies.

Highly Skilled Professionals

- Professionals who are equipped to manage ICT projects, installations and organizations that comply with prevailing regulations and meet quality and environmental criteria.
- Entrepreneurs and researchers who are able to carry out projects in an international environment.
- Professionals who have the skills to implement ICTs in all types of companies and organizations.
- Professionals who can lead R&D departments and projects with a substantial research component.
- Graduate employment rate of practically 100% and salaries among the highest for university graduates.
FIB: How?

Research and innovation
Mobility and Internationalisation
Internships

Social Life

Academic excellence

https://masters.fib.upc.edu/
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FIB Masters: MEI, MIRI, MDS, MAI (plus BDMA and EU4HPC)

Quick Summary
FIB Masters

https://masters.fib.upc.edu/
FIB Masters

• Master in Artificial Intelligence (MAI)
• Master in Informatics Engineering (MEI)
  • Master in Informatics Engineering – Industrial Modality
• Master in Innovation and Research in Informatics (MIRI)
  • Advanced Computing
  • Computer Graphics and Virtual Reality
  • Computer Networks and Distributed Systems
  • High-Performance Computing
• Master in Data Science (MDS)
• Erasmus Mundus Master in Big Data Management and Analytics (BDMA)
• EU Master in High Performance Computing (EU4HPC)

https://www.fib.upc.edu/en/studies/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

https://masters.fib.upc.edu/masters/master-informatics-engineering
MEI – Industrial Modality

Delivers the same MEI title (all information from previous slide holds), but thought for people taking the master part-time while at a company

• Intensive training academic-professional,
• Focus on project management and team leadership

• Students of this modality will achieve their studies in 2 years with the following dedication:
  • A maximum of 4-5 hours/day dedicated to their studies at FIB,
    • Compact Lecture Schedule: 3 afternoons per week (14:00 to 20:00)
    • The rest of hours are devoted to self-study activities that can be conducted from home
  • Around 5 hours/day dedicated to their formation and work in industry

https://masters.fib.upc.edu/masters/master-informatics-engineering-industrial-modality
# MEI Vs. MEI Industrial Modality

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<thead>
<tr>
<th>S1</th>
<th>MEI</th>
<th>Industrial MEI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACAP, CSI, SEU, SGI, PEGTI +1,5 ECTS (1 management course)</td>
<td>SGI, CSI, PEGTI+SECS</td>
</tr>
<tr>
<td>S2</td>
<td>VPEI+FPEI, DGSI, ISDCM +7,5 ECTS (3 elective courses)</td>
<td>VPEI+FPEI, DGSI, ISDCM</td>
</tr>
<tr>
<td>S3</td>
<td>Master Thesis</td>
<td>SEU, ACAP</td>
</tr>
<tr>
<td>S4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ECTS (industrial modality)**
- 48 ECTS FIB
- 42 ECTS Industry (25/30h = 1 ECTS)

**Total:** 90 ECTS
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
MDS: Master in Data Science

This master offers a unique interdisciplinary syllabus to unlock data value in a systematic, rigorous and scalable manner

- **Data Management** data lifecycle (data flows, databases, systems; including Big Data scenarios)
- **Data Analytics** data analysis and visualization (data mining and machine learning)

- 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

https://masters.fib.upc.edu/masters/master-data-science
MAI: Interuniversity Master in Artificial Intelligence

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

- Jointly offered with Universitat de Barcelona (UB) and Universitat Rovira i Virgili (URV)
  - 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) – implemented as elective courses
  - 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

https://masters.fib.upc.edu/masters/master-artificial-intelligence
Other Masters: BDMA

- Erasmus Mundus in Big Data Management and Analytics (BDMA)
- Coordinated by Université Libre de Bruxelles and 4 additional European Universities: UPC, Università di Padova, Technical University of Eindhoven and Paris-Saclay - CentraleSupélec
- Accreditations: EACEA flagship master in Big Data and Data Science
  - EACEA grants (very competitive): September to mid December (already passed)
  - Self-funded period: from March to June (open)
- 120 ECTS: 2 years
  - 60 compulsory
  - 30 specialisation (business process analytics, decision support and data analytics and statistics and deep learning for data analytics)
  - 30 Master thesis

https://bdma.ulb.ac.be/
Other Masters: BDMA

Apply at: https://cs.ulb.ac.be/emundus/

1st semester
- Fundamentals I
  ULB (BE)

2nd semester
- Fundamentals II
  UPC (ES)

Summer school
- European BDMA Summer School (eBISS)
  Organised by one partner institution

3rd semester
- Business Process Analytics
  TU/e (NL)
- Decision Support and Data Analytics
  CS (FR)
- Statistics and Deep Learning for Data Analytics
  UniPD (IT)

4th semester
- Master’s Thesis
  In any main or associated partner

Final event
- Master’s Theses Defences and Graduation Ceremony
  Organised by one partner institution
Other Masters: EU4HPC

- 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)
- Application: two independent steps with different deadlines (not necessarily one after the other)
  - EUMaster4HPC (scholarships): https://www.eumaster4hpc.tf.fau.eu/
  - Entry university (local master programme): https://www.eumaster4hpc.tf.fau.eu/#collapse_1
- EUMaster4HPC
  - 1st Period: 24th November to 14th December (passed)
  - 2nd Period: 8th January to 31st March (open) – note that the UPC deadline is earlier and you must apply to MIRI-HPC in parallel on time!
- 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

https://eumaster4hpc.uni.lu/
Other Masters: EU4HPC

Implemented as dual degrees:

Year 1
Entry university

Fundamental courses
- Mathematics and Statistics
- Software Engineering
- Parallel Programming
- Computer Architecture

Workshops

Year 2
Chosen university for mobility

Specialisations for High Performance Computing
- Application Domain Expert
- Numerical and Data Specialist for Science Domains
- Performance Analyst and Advisor
- System Development and Support
- System Architect

Workshops

Dual degree from 2 awarding universities

https://eumaster4hpc.uni.lu/
How to Navigate the FIB Websites

• Overall view: https://masters.fib.upc.edu/
  • Video with this information session recorded
  • For each master
    • Video of the specific information session (only for MEI, MIRI, MDS)
    • Why this master
    • Curriculum
    • Employment opportunities
    • Admission
    • Faculty
  • International prestige
  • Grants
  • About Barcelona

• Specific details per master: https://www.fib.upc.edu/en/studies/masters/
  • Enrolment
  • Detailed curriculum / syllabus
  • Academic regulations
  • Timetables and Exams

• Administrative procedures: https://www.fib.upc.edu/en/studies/academic-management
• Academic calendars: https://www.fib.upc.edu/en/studies/academic-management/academic-calendars
The pre-enrolment is open from 26 February to 26 May 2024. It is divided into two periods:
- 1st period: From 26 February to 18 April.
- 2nd period: From 22 April to 26 May.

Check our grants opportunities
Do you want to attend our information sessions? Sign up for them!

General information sessions 2024
All general sessions will include MEI, MIRI, MAI and MDS.
- Tuesday 15 March, 4 pm - sign up!
- Tuesday 7 May, 12 pm - sign up!

Specific information sessions 2024
All specified sessions will treat a specific master.
- MEI - Tuesday 9 April, 4 pm - sign up! Change of date to Friday 12 April, 4 pm
- MIRI - Tuesday 16 April, 12 pm - sign up!
- MDS - Tuesday 18 April, 4 pm - sign up!

The sessions will be held in English, except for the specific MEI session, which will be in Catalan/Spanish.

MEI: Master in Informatics Engineering; MIRI: Master in Innovation and Research in Informatics; MAI: Master in Artificial Intelligence; MDS: Master in Data Science
Procedure

Interested in one of our masters? This is the procedure to follow

The admission process, step by step

1. Register. Enter your personal and academic details.
2. Pay the €30 pre-enrolment fee to start the process.
3. Check the decision on admission.
4. You must accept the place.
5. Pay €300, which will be deducted from your enrolment fees.
6. Enrol and provide the original documents.

https://www.upc.edu/en/masters/access-admission-enrolment
Important Dates

• **Pre-enrolment**: From 26th February to 26th May 2024

• Two (three) admission periods:
  • First period:
    • Deadline to apply: 18th April 2024
    • Tentative admission notification: 28th April 2024 (2nd May 2024)
  • Second period:
    • Deadline to apply: 26th May 2024
    • Tentative admission notification: 2nd June 2024 (9th June 2024)
  • Third period:
    • Not guaranteed, only if seats available
    • Tentative deadline: 30th June 2024
    • Tentative admission notification: 7th July 2024

• Check the specific website of each master to know about its admission criteria: masters.fib.upc.edu
Pre-enrolment

• Start the procedure from the masters.fib.upc.edu website. Look for your favourite master, scroll down and look for the pre-enrolment button as shown below.

• To pre-enrol follow the instructions
  • Provide the required documentation to evaluate your admission
  • Pay 30,21€ (tax). The button to pay the tax does not appear until all required data is introduced.

You can learn more about the pre-enrolment process here: https://www.upc.edu/en/masters/access-admission-enrolment/pre-enrolment
Admission

• Depending on your pre-enrolment data your application will be evaluated within the first or second period.

• Evaluation outcome:
  • First period: accept, postpone, reject
  • Second period: accept, waiting list, reject

• **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 (this money is later deducted from the registration cost).

• **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 program.
Administrative and Academic Contacts

• General:
  • Information: info.masters@fib.upc.edu
  • Specific academic questions:
    • MAI: Ulises Cortés (ia@cs.upc.edu)
    • MEI, BDMA, MDS: Òscar Romero (vd.postgrau@fib.upc.edu)
    • MIRI-AC: Amalia Duch (duch@cs.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)
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Prices

Prices 2023/24 for European Union applicants
• MEI: 18,46€ / ECTS
• MIRI, MDS, MAI, EU4HPC: 27,67€ / ECTS
• BDMA: 75€ / ECTS (price for programme* countries)
*Programme countries: EU countries plus Turkey, the former Yugoslav Republic of Macèdonia (FYROM), Iceland, Liechtenstein, Serbia and Norway

Prices 2023/24 for Non-European Union applicants
• MEI, MIRI, MDS, MAI, EU4HPC: 102,52€ / ECTS
• BDMA: 150€ / ECTS

Note: prices for 2024/2025 will be published in July. Once published, UPC list the prices here: https://www.upc.edu/en/masters/fees-grants
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Social Life

Research and innovation

Academic excellence

Mobility and Internationalisation

Internships

https://masters.fib.upc.edu/
Internships

Internships

CCE can be established with companies having an Industrial Agreement with FIB

• Extracurricular Practices:
  • NO Elective credits
  • MDS only accepts this type of practices (except for the Master Thesis: modality B or D)

• Curricular Practices:
  • Elective ECTS (6 minimum, 12 maximum) [+ Master Thesis ECTS]
  • 30 hours → 1 ECTS
  • Master Thesis (Modality B or D) – all masters

Limit of CCE hours per degree:

• Hours per year
  • Maximum: 900 hours for MAI and MEI (90 ECTS master)
  • Maximum: 1200 hours for MIRI and MDS (120 ECTS master)

Professional Experience as elective ECTS (work contract):

• Previous or during the master
• 1600 hours per 6 credit
  • Then, proportional
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Mobility and Internationalisation

Plenty of options! **205 universities in 42 countries**

- **Study abroad (one or two semesters)**
  - Conditions (max ECTS): MIRI (12+18+30), MEI (30), MDS (30+30), MAI (12+18)
  - Mobility programs (many with scholarships)
    - CERN
    - Erasmus+
    - UNITECH
    - Latin America, USA and Canada
    - National Institute of Informatics (NII) Tokyo and Vulcanus in Japan
    - China

- **5 Double degrees (8 for next academic year)**
- **Internship abroad**
  - Ever-open calls: Erasmus+, IAESTE, AIESEC, Entrypark
  - Academic institutions
  - Industry
- **Other activities (summer schools, short stays...)**

>200 requests including bachelor and master students for 2023/2024
Mobility and Internationalisation

[Link to Mobility website]

Knowing a new university, discovering a new country or improving your language skills are some of the advantages of the mobility programs offered by FIB.

Personal experiences that will allow you to stay in foreign universities and intern at businesses worldwide.

- Incoming
- Outgoing
- Double degrees
- International Partnerships
Mobility and Internationalisation

- Mobility calendar: [https://www.fib.upc.edu/en/mobility/outgoing/mobility-calendar](https://www.fib.upc.edu/en/mobility/outgoing/mobility-calendar)
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• Information Sessions: https://www.fib.upc.edu/en/mobility/outgoing/information-sessions

Still have doubts? Contact us at: rel.int@fib.upc.edu
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Grants and Aids

- Find all details at: [https://masters.fib.upc.edu/grants-and-financial-aid](https://masters.fib.upc.edu/grants-and-financial-aid)

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<td>NTT DATA (2023-2024)</td>
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<td>&quot;Nacho Navarro&quot; grants (2023-2024)</td>
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<td>Solder grants (2023-2024)</td>
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<td>FIB Visiona - FIB grants (MEI, MIRI and MAI)</td>
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<td>Fundació Catalunya-La Pedrera (MIRI)</td>
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<td>Fundació Catalunya-La Pedrera (MAI)</td>
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<td>Accenture - Barcelona Digital Talent grants</td>
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<th>Scholarships</th>
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<td>ARCO Scholarships for MIRI Students</td>
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<td>CBA scholarships in AI for networking for MIRI Students</td>
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<td>InLab FIB</td>
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<tr>
<td>NaNoNetworking Center in Catalunya (NJCatal) scholarship for MIRI Students</td>
</tr>
<tr>
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Own Grants

• FIB participates in several consortiums and has strong links with foundations / companies who provide financial aid to our students:
  • BDMA Master (joint degree equivalent to a triple degree)
  • EU4HPC Master (dual degree)
  • NTT Data
  • Seidor
  • Allianz Technology
  • Nacho Navarro
  • FIB Visiona
  • Fundació Catalunya-La Pedrera
  • ...
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Social Life

Research and innovation

Mobility and Internationalisation

Internships

Academic excellence

https://masters.fib.upc.edu/
Research and Innovation

• UPC, and FIB specifically, is a leading research institution
  • Start-ups, spin-offs, innovation and technology transfer: https://www.upc.edu/en/r-d-i/innovation
  • UPC’s centre for Development Cooperation: https://www.upc.edu/ccd/en

• Complement your time during the masters with added-value tasks!

• 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 groups
  • Have strong networks with researchers all over the world
    • You may want to do research under international mobility

• Formalise your research experience with research grants or CCE agreements

• Areas covered by our research groups:
  • 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 (ESAII)
Research Groups (https://futur.upc.edu/)

Mathematics
- MD: Discrete Mathematics
- DCCG: Computational Geometry and Combinatorial Geometry
- TN: Numbers Theory
- GRTJ: Game Theory
- GRAA: Applied Analysis
- GREC: Knowledge Engineering (with ESAII)
- MMAC: Mathematical Models Applied to Social and Natural Sciences

Business Administration
- EOLI: Industrial Engineering and Logistics
- GREDIC: Innovation and Knowledge Economy
- LEAN MRG: Lean Management
- CERpiE: Research & Development Centre for Enterprises’ Improvement and Innovation

Services and Information System Engineering
- inSSIDE: integrated Software, Services, Information and Data Engineering
- MPI: Modelling and Processing Information
- DTIM: Database Technologies and Information Management

Systems Engineering, Automatic Control and Industrial Informatics
- ACES: Advanced Control of Energy Systems
- ACP: Automation and Process Control
- GREC: Knowledge Engineering (with MAII)
- GRINS: Intelligent Robotics and Systems
- NOLIN: Nonlinear Physics and Unbalanced Systems
- SAC: Advanced Control Systems
- SISBIO: Biomedical Signals and Systems
- VIS: Artificial Vision and Intelligent Systems
Research Groups

**Computer Architecture**
- ANA: Advanced Network Architectures
- ARCO: Architectures and Compilers
- CAP: High Performance Computing
- CBA: Broadband Communications Systems
- CNDS: Computer Networks and Distributed Systems
- DAMA: Data Management
- DMAG: Distributed Multimedia Applications

**Physics and Nuclear Engineering**
- CS-SIMBIO: Complex Systems - Computer Simulation of Materials and Biological System
- DILAB: Dielectric Material Physics Laboratory
- DONLL: Nonlinear Dynamics, Nonlinear Optics and Lasers
- GAA: Astronomy & Astrophysics
- GCM: Characterization of Materials
- GIEP: Innovative Education in Physics
- GREENER: Studies in Energy and Radiation
- NERG: Nuclear Engineering
- SIMCON: Computer Simulation in Condensed Matter
- GRPFM: Physical Properties of the Materials

**Computer Science**
- ALBCOM: Algorithms, Biocomputing, Complexity and Formal Methods
- GIE: Engineering Computing
- GRPLN: Natural Language Processing
- KEMLG: Knowledge Engineering and Machine Learning (with EIO)
- LARCA: Relational Algorithms, Complexity and Learning
- LOGPROG: Logic and Programming
- MOVING: Modelling, Visualization, Interaction and Virtual Reality
- SOCO: Soft Computing
- STH: Sustainability, Technology and Humanities

**Statistics and Operational Research**
- LAIRE: Laboratory of Aeronautical and Industrial Research and Studies
- GRESA: Applied Statistics
- LIAM: Laboratory of Information Analysis and Modelling
- KEMLG: Knowledge Engineering and Machine Learning (with LSI)
- GRASS: Survival Analysis Statistics
- GREMA: Mathematical Statistics and its Applications
- GNOM: Numerical Optimization and Modelling
- PROMALS: Mathematical Programming, Logistics and Simulation
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Services

• Equal opportunities: https://igualtat.upc.edu/
  • Bullying
  • Gender equality
  • Transgender community

• Inclusion: https://inclusio.upc.edu/
  • Learning needs
  • Teaching support
  • Psychologic orientation

• Solidarity and cooperation: https://ccd.upc.edu/

• Learning languages: https://www.upc.edu/slt/en/reception/languages-upc

• Cultural reception: https://www.upc.edu/slt/en/reception

• Libraries
• Sports Club
• UPCArts

Social Life

• FIB promotes social activities: [https://www.fib.upc.edu/en/fib/university-life](https://www.fib.upc.edu/en/fib/university-life)
Events

Twelfth European Big Data Management & Analytics School (eBISS 2024)

Padova, Italy

MWC

April 9-11, 2024
Fira Barcelona - Gran Vía
Barcelona, Spain
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FAQs

• If I’m finishing my undergraduate studies this year, can I apply to a master?
  Of course! You can be admitted. You only need to finish on time your registration in September. Indeed, if you finalize your bachelor thesis in October you can yet be admitted in our masters. Contact us for more details.

• Can I work and study at the same time?
  Of course! there are several opportunities to do extracurricular practices in companies that, in turn, may help you to obtain elective ECTS for some of our masters.

• Can I take a master part-time?
  You can do it, but be aware that there are some limitations you need to be aware of. Check the administrative procedures and the master regulations for more details.

• For new incoming students... what about enrolment?
  Registration is online. If you require to hand in some documentation you can do it later, before the lectures start in September. Our secretariat will provide more details upon acceptance.
Do you have further questions? Do not hesitate to contact us at info.masters@fib.upc.edu