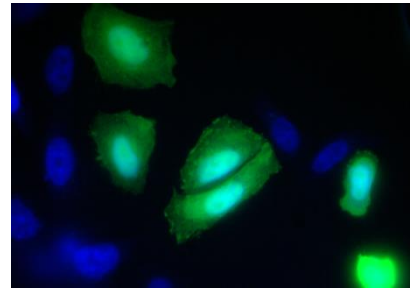
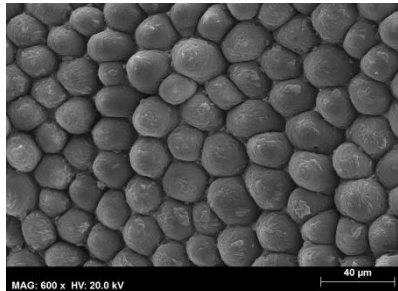
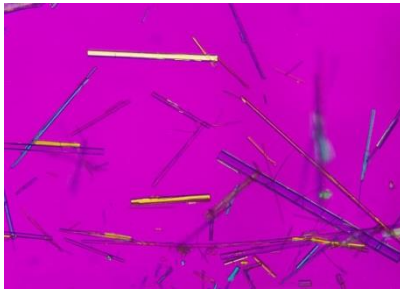


Internships in Biological Engineering

Instituto Superior Técnico, University of Lisbon



► Scope:

Students of the Integrated Master Degree (MSc) in Biological Engineering must perform a 6-month, full-time practical project (experimental, field, computing, management) to obtain credits for the Curricular Unit “Master Dissertation in Biological Engineering”. The project can be carried out in Research Centres or Companies outside IST.

► Dedication and start dates:

Full time dedication is required during the duration of the Master Dissertation projects. Students may take the course in either semester and start dates are typically September (1st semester) and March (2nd semester).

► Requirements for completion:

At the end of the project, the student must write a report (thesis) and present/defend it publicly before a committee at IST. This thesis must be filed at the Portuguese National Library and made available on-line according to the current legal requisites. Thus, the report and presentation must be free from confidential items and approved by the host institution.

► Confidentiality:

For internships carried out in companies, IST requires the signature of a standardized Confidentiality Agreement (CA) between the parties. The student thesis should omit confidential information (e.g. chemicals’ names, formulae, absolute scales in graphs or tables). This is perfectly acceptable, as long as the student’s performance can be perceived from the thesis. If required, a confidential report can be produced just for appreciation by the committee members (who are bound by the CA).

► How to propose an internship

A form is available (coordgrad@bioengenharia.ist.utl.pt) that can be filled in with a general description of the project and sent well before the start of each semester (3-4 months). This information will be publicized among the Dissertation candidates. The interested students then contact the supervisor responsible for the internship, sending them their CV and making themselves available for an interview. If selected, an internal IST supervisor is designated that will serve as a link between IST and the host institution.

► Quick facts:

- **Length:** 6 months
- **ECTS:** 30
- **Dedication:** Full time
- **Start dates:** September/March

► Former hosts:

Companies

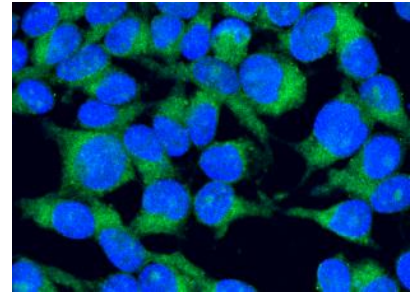
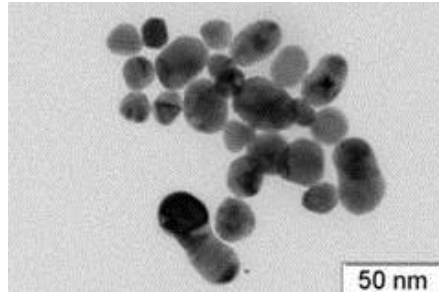
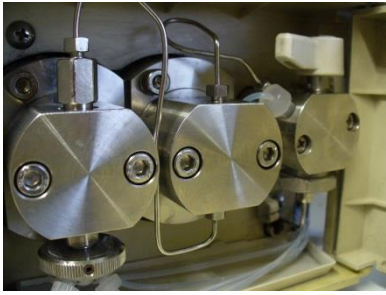
- BeyonDevices
- Centralcer
- DSM
- Hovione
- Hikma Pharmaceuticals
- Kraft Foods
- Novartis
- Nizo
- Panrico
- Sumol-Compal

Universities

- Aachen
- Aalborg
- Barcelona
- Cambridge
- College London
- Copenhagen
- DTU
- Gent
- Imperial College London
- Lund
- Oxford
- Paris VII
- Vienna
- St. Andrews
- TUDelft
- TUGraz
- Twente
- Wageningen

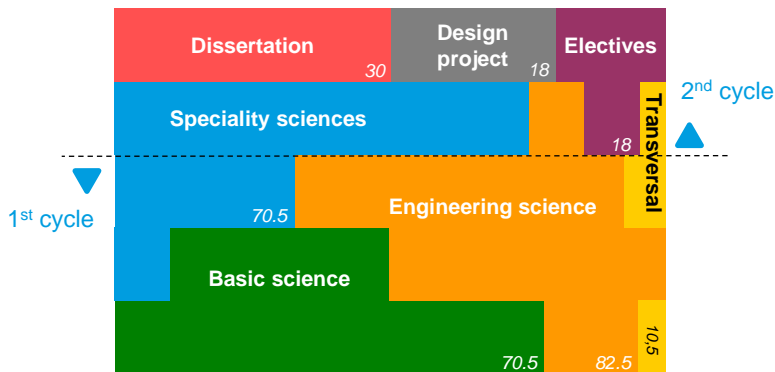
Internships in Biological Engineering

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▶ Student profile:

Students of the Master in Biological Engineering have a solid background in Mathematics, Physics, Chemistry and Engineering Sciences, and a cross-disciplinary and updated education in fields like Microbiology, Molecular and Systems Biology, Bioprocess Engineering, Nanobiotechnology, Bioinformatics, and Tissue and Cell Culture Engineering. At the time of enrollment in the Dissertation in Biological Engineering, students will have completed at least 258 ECTS credits. The students obtain practical experience during their lab courses and Summer internships.



▶ Subjects covered:

- **Basic Sciences:** Biochemistry, Algebra, Biology, Chemistry, Computation, Physics, Calculus, Statistics.
- **Engineering Sciences:** Organic, Physical & Analytical Chemistry, Transport Phenomena, Genetic Engineering, Thermodynamics, Bioprocesses, Laboratories.
- **Speciality Sciences:** Enzyme Eng., Bioreactors, Microbiology, Bioinformatics, Environmental Eng., Genomics, Biological Eng., Microbial Physiol, Bioseparations.
- **Transversal skills:** Management, Entrepreneurship & Innovation.

▶ IST at a glance:

Instituto Superior Técnico is the largest and most reputed school of Engineering, Science and Technology and Architecture in Portugal. At IST, we aim to give our students and alumni the education and the knowledge tools to improve, change and shape society through science, technology, and entrepreneurship. We provide top quality higher education, strongly exposed to Research, Development and Innovation (RD&I) activities, immersing our students in an environment geared towards solving XXIst century challenges.



▶ Facts and figures:

- **Foundation:** 1911
- **Location:** Lisbon
- **Budget:** 114 M€
- **Facilities:** 124.323 m²
- **Faculty:** 927
- **Administrative:** 475
- **Students:** 10.894
- **Bachelor:** 6.395
- **Master:** 3.406
- **PhD:** 1.093
- **1st cycle courses:** 19
- **Master programs:** 28
- **PhD programs:** 29
- **Research centers:** 29
- **PhD awards:** 1.286
- **Scientific publications:** 2.881
- **Web:** www.ist.utl.pt