

68463 - Practical Training in external companies/centres

Syllabus Information

Academic year: 2024/25

Subject: 68463 - Practical Training in external companies/centres

Faculty / School: 100 - Facultad de Ciencias

Degree: 626 - Máster Universitario en Biofísica y Biotecnología Cuantitativa / Master in Biophysics and Quantitative Biotechnology

ECTS: 6.0

Year: 01

Semester: Second semester

Subject type: Optional

Module:

1. General information

The objective of this course is to introduce students to professional environments related to the skills they are acquiring while pursuing the Master's in Biophysics and Quantitative Biotechnology, familiarizing them with the adaptation of classroom learning to real-world work settings. The external internships are educational activities undertaken by students in collaborating entities (companies, institutions, and public or private entities) at both the national and international levels, or within the University of Zaragoza itself.

This is an elective course in the second semester of the first year of the Master's program, which, in agreement with the host organization, can be carried out either during that period or during the immediately following summer period. In any case, the internship period will always be the one agreed upon with the specific entity where the student will be placed.

The objectives of this course are aligned with the following SDGs (Sustainable Development Goals) of the United Nations 2030 Agenda (<https://www.un.org/sustainabledevelopment/>), so that acquiring the learning outcomes of the course may provide skills and competence to contribute to their achievement to some extent: Goal 3: Good Health and Well-being. Goal 4: Quality Education. Goal 5: Gender Equality. Goal 7: Affordable and Clean Energy. Goal 8: Decent Work and Economic Growth. Goal 9: Industry, Innovation, and Infrastructure. Goal 10: Reduced Inequalities.

2. Learning results

By completing this course, the student will achieve the following outcomes:

- Familiarization with a workplace related to their degree.
- Understanding of the typical challenges faced by a company or research center.
- Achievement of partial objectives set by the tutor for each specific task.
- Adaptation to the proposed schedule and work plan.
- Preparation of reports with the quality and precision required for each specific task.
- Engagement with the realities of the professional world in the specific environment where the internships are conducted, which will be very useful for their future career orientation.
- Enhancement of their technical and professional skills, enabling them to tackle new professional challenges.

3. Syllabus

In this course, there is no fixed program to follow, although the internship must be related to the Master's program and provide the student with an experience that enriches their education.

The student will be assigned two tutors (one from the University and another from the company, entity, or institution) with whom they must meet periodically. These tutors are responsible for supervising the work performed and assessing the student's learning.

4. Academic activities

The activities offered to the student to help them achieve the expected outcomes include the following:

- Completion of a project related to their degree, supervised by a tutor at the institution where the internship takes place and an academic tutor at the University of Zaragoza.
- Preparation of a final report detailing the activities and tasks in which the student participated, written under the guidance and with the approval of the tutors at the collaborating entity, and approved by the academic tutor.

5. Assessment system

The student must demonstrate that has achieved the expected learning outcomes through the following assessment activities:

Report of the tutor in the collaborating entity

The tutor of the collaborating entity will send a report on the tutored student to the academic tutor, in which the number of hours dedicated by the student to the different tasks assigned will be indicated, relating the 140 hours that the student has to dedicate to the course in the entity. In this report the following aspects of the activities developed by the student will be assessed:

- a) Technical capacity.
- b) Learning ability.
- c) Administration and organization of tasks.
- d) Oral and written communication skills.
- e) Sense of responsibility and personal involvement.
- f) Ease of adaptation.
- g) Creativity, initiative and motivation.
- j) Receptivity to criticism.
- k) Punctuality and relations with the work environment.

Based on this report, the tutor in the company will issue an assessment for the student on a scale of 0 to 10. Each of the above mentioned items will contribute to 10% of the mark.

Student report on the activities carried out in the collaborating entity

The student will send to the academic tutor a summary report of the activities carried out in the collaborating entity. This report will have a maximum length of 4 pages and must not contain any type of information that may be confidential for the company. In this report the student will be able to express any other fact that he/she has to note about the development of his/her stay in the collaborating entity.

Academic tutor evaluation

The academic tutor will meet periodically with the student during the internship period, at least three times:

- a. An initial meeting to discuss the training project that the student must develop
- b. An intermediate follow-up meeting
- c. A final meeting where the student will present, in a brief presentation, the report of activities carried out, and a subsequent debate on the report and presentation.

Based on the student's report and the meetings with the student, particularly the debate and final presentation, the academic tutor will issue an assessment for the student on a scale of 0 to 10.

The tutor will particularly value:

- a. The student's knowledge and understanding of the activities carried out
- b. The ability of the student to manage the new situations that he/she has faced and to transmit the skills that he/she has acquired

Global assessment of the course by the academic tutor

The final grade for the course will be contributed by: Report of the tutor in the company = 60%; Academic tutor report = 40%.

To pass the course it will be essential to have a 5 out of 10 in each of the computable sections, and 5 out of 10 in the overall mark.

6. Sustainable Development Goals

- 3 - Good Health & Well-Being
- 4 - Quality Education
- 9 - Industry, Innovation and Infrastructure