

**Research Studentships (for students of a course that does not award an academic degree)**

Applications are open for two (02) Research Studentship within the framework of the project InsectERA - A ERA da indústria dos insetos at Instituto Superior Técnico (IST-ID) (reference InsectERA\_Contrato20-IST), financed by the European Union, through the NextGenerationEU, program “Agenda Mobilizadora para a Inovação Empresarial” and national funds through the “Instituto de Apoio às Pequenas e Médias Empresas e à Inovação” (IAPMEI) and the PRR - Recovery and Resilience Plan, under the following conditions:

**Scientific Area:** Chemical Engineering

**Admission Requirements:**

*a) to hold a bachelor degree and be enrolled at a course that does not award an academic degree and it is integrated in the educational project of a higher education institution, performed in association or cooperation with one or several R&D units;*

*b) not to exceed with this contract, including the possible renovations, an accumulated period of one year in this type of studentship, continuously or with interruptions.*

**Workplan:**

1. Develop an efficient process to extract and isolate the chitin contained in the BSF exuviae biomass.
2. Perform deacetylation process of the obtained chitin into chitosan.
3. Perform the characterization of the obtained chitosan ( XPS, PXRD, MS).
4. Produce bioplastics by several methodologies.
5. Characterize the bioplastics made.
6. Analysis and conclusion

**Legislation and Regulations:** Statute of Scientific Research Fellow, approved by Law nr. 40/2004, of August 18, as worded by Decree-Law nr. 123/2019, of August 28; FCT Regulation for Research Studentships and Fellowships, available on <https://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2019.pdf> and <https://dre.pt/application/file/a/127230968> .

**Workplace:** The work will be developed at Centro de Química Estrutural (CQE) of Instituto Superior Técnico, Universidade de Lisboa, under the scientific supervision of Doctor Ana Paula Ribeiro.

**Duration:** The research fellowship will have the duration of 12 months Not renewed. It’s expected to begin in May, 2024.

**Monthly maintenance allowance:** According to the values for Research Fellowships awarded by FCT in Portugal ([https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM\\_atualizacao-2024.pdf](https://www.fct.pt/wp-content/uploads/2024/02/Tabela-de-Valores-SMM_atualizacao-2024.pdf)), the amount of the monthly maintenance allowance is € 990,98, being the payment method an option of the Fellow by Wire Transfer/Check.

**Selection methods:** Curriculum evaluation, with eventual individual interview if necessary. The criteria used to evaluate the candidates’ curricula will be as follows:

1. Academic trajectory. Bachelor’s final grade, with special value attributed to indicators of additional academic qualifications of the candidate (50%).
2. Experience in synthetic laboratory techniques and methods (25%);
3. Familiarity with experimental methods of structural characterization (25%).

**Composition of the selection Jury:** Professor Luísa Margarida Martins (Department of Chemical Engineering, Instituto Superior Técnico); Doctor Ana Paula Ribeiro (Centro de Química Estrutural, Instituto Superior Técnico); Doctor Ana Maria Conceição Ferraria (BSIRG do Instituto de Bioengenharia e Biociências (iBB), Instituto Superior Técnico)

**Announcement/ notification of the results:** The final evaluation results will be communicated to all applicants by email.

**Deadlines and procedures of complaint and appeal.** A complaint may be lodged from the final decision within 15 working days, or an appeal to the Executive Board of IST-ID within 30 working days, both counted from the respective notification

**Application deadline and formalization:** The call is open from April 19 until May 2, 2024.

It is mandatory to formalize applications with the submission of the following documents: i) B1 Form – Fellowship application (<https://ist-id.pt/concursos/bolsas/>); ii) *Curriculum Vitae*; iii) academic degree certificate, where applicable; iv) proof of enrollment at a course that does not award an academic degree; v) motivation letter; vi) declaration on honour that the applicant does not exceed with this contract an accumulated period of two years in this type of studentship, continuously or with interruptions.

Applications must be submitted to the email: [amalia.soares@tecnico.ulisboa.pt](mailto:amalia.soares@tecnico.ulisboa.pt)