



Universidade Nova de Lisboa
Instituto de Tecnologia Química e Biológica António Xavier (ITQB NOVA)

Notice

Recruitment and hiring procedure for a PhD holder
Reference 013/TRI-PhD/ERC-SelfDriving4DSR/2025

It is made public that, by order of the Dean of the *Instituto de Tecnologia Química e Biológica António Xavier da Universidade NOVA de Lisboa* (ITQB NOVA), issued on 3rd of April, 2025, the opening of an international selection procedure was authorized under the regime for contracting PhD holders (Decree-Law No. 57/2016, of 29 August, amended by Law No. 57/2017, of 19 July, in its current wording), to fill a position for a PhD holder, in the scope of the research project entitled “Enabling Live-Cell 4D Super-Resolution Microscopy Guided by Artificial Intelligence”, acronym SelfDriving4DSR and reference 101001332, funded through the European Research Council.

The Doctorate to be hired will develop research work within the current phase of the project's development, expected to last 12 months.

Place of work:

The work will be developed at the ITQB NOVA facilities, located at *Avenida da República*, in Oeiras, without prejudice to any travel and stays inherent to the functions to be performed and activities to be developed.

Academic background:

PhD in Cell Biology, Infection and Immunobiology or related areas.

General requirements:

- 1) PhD in Cell Biology, Infection and Immunobiology or related areas;
- 2) Minimum of three first-author or last-corresponding-author publications in areas relevant to the project (use of deep-learning algorithms for microscopy; development of phototoxicity assays; super-resolution microscopy; pathogenesis and host interaction);
- 3) Good knowledge of English, spoken and written.

This application procedure is open to any national, foreign and stateless candidate(s) holding a scientific and professional curriculum showing a relevant profile for the activity to be developed.

Specific requirements:

- 1) Experience in scientific research in the area of Life Sciences, Health Sciences or related areas, demonstrated in scientific publications;
- 2) Proven experience in the use and development of super-resolution techniques including single-molecule localization microscopy and/or expansion microscopy;
- 3) Proven experience in image analysis for super-resolution microscopy image analysis using deep-learning;
- 4) Experience in developing collaborative work with scientists and/or other specialists;
- 5) Solid computer skills particularly in coding with Python and its application in deep learning for the analysis of microscopy bioimages.

Characteristics to be valued:

- 1) Good understanding of the national and international science and technology system;
- 2) Experience in researching and organizing information carefully, with attention to detail.
- 3) Excellent planning and organizational skills;
- 4) Resilience, critical thinking and ability to work independently and as part of a multidisciplinary team;
- 5) Ability to fulfil tasks with established and defined deadlines.

Category and applicable law:

- PhD holder, Level 38 of the Single Retributive Table (TRU), in accordance with Regulatory Decree No.11-A/2017, of 29 December.
- Employment contract for an uncertain term, according to the article 18 and paragraphs 1(b) and 3 of article 6 of the Decree-Law No. 57/2016, of August 29, amended by Law No. 57/2017, of July 19, under the legal terms in force. The contract is expected to start in December 2024.
- If the doctoral degree has been awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law No. 66/2018, of August 16, and any formalities established therein must be fulfilled by the date of signature of the employment contract.

Documents to be attached to the application:

- Detailed *Curriculum Vitae*;
- Motivation letter;
- Two contacts for references;
- Copy of PhD certificate.

Selection methods and definition of respective weightings:

- Curricular Assessment (CA), through the evaluation of the curriculum vitae and the motivation letter – 90%
- Selection Interview (SI) – 10%

The final classification will be expressed on a scale of 0 to 20 values, resulting from the application of the following formula: Final classification = 90% * CA + 10% * SI

Candidates will be ranked according to their score in the Curricular Assessment, and the three candidates with the best score in this parameter, provided it is equal to or higher than 16 points, will be called for interview. Candidates will also be ranked on a scale of 0 to 20 in the Selection Interview. If the vacancy is not filled, the next three best-placed candidates may be called, according to the ranking list.

ITQB NOVA reserves the right not to proceed with hiring, in the absence of candidate(s) with the appropriate profile.

Composition of the Selection Committee:

- Doctor Ricardo Henriques, ITQB NOVA (President)
- Doctor Pedro Matos Pereira, ITQB NOVA (Effective member)
- Professor Mariana Pinho, ITQB NOVA (Effective member)
- Professor Sérgio Filipe, FCT NOVA (Substitute member)

Deadlines of applications:

The application call is available during 10 working days, starting on 10th April and ending on 23rd April, 2025.

Submission of applications:

All documents **must** be sent as a **single PDF** file by email to concursos@itqb.unl.pt indicating the Reference **Reference 013/TRI-PhD/ERC-SelfDriving4DSR/2025** in the subject.

Notification of Results:

All candidates will be informed of the decisions by e-mail.

Non-discrimination and equal access policy:

Under ITQB NOVA actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, harmed or deprived of any right, on basis of age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, race, territory of origin, language, religion, political or ideological convictions, and trade union membership.

Under the terms of Decree-Law No. 29/2001, of February 3, the candidate with a disability has preference in equality of classification, which prevails over any other legal preference. Candidates must declare on the application form, under oath, the respective degree of disability, the type of disability and the means of communication/expression to be used in the selection process, under the terms of the aforementioned diploma.

The full notice of this recruitment procedure will be available at <https://euraxess.ec.europa.eu/> and on the ITQB NOVA website <https://www.itqb.unl.pt/jobs/>

Oeiras, 4th of April 2025

The Dean of ITQB NOVA,
Professor Doctor João Paulo Serejo Goulão Crespo