

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

– AGROTECH CAMPUS of Oeiras –

Junior Researcher Position

within GREEN-IT Research Unit “Bioresources for Sustainability”

MOLECULAR PLANT PHENOTYPING - PLANT METABOLOMICS

(Ref. 018/TRI-IJun/2020-GREEN-IT)

In accordance with the article 9 of the Regulation No. 393/2018, published in *Diário da República*, 2nd series, of June 28th, regarding the recruitment and employment contract for researchers, Prof. Cláudio Manuel Simões Loureiro Nunes Soares, Director of *Instituto de Tecnologia Química e Biológica António Xavier*, in the order issued on February 27th, 2019, informs that an international call is now open, for a period of 60 working days, from the day of the publication of the present notice in *Diário da República*, for the recruitment of a position for one Junior Investigator, under an employment contract for a non-fixed term, under private law regime, in the scientific area of Plant Sciences, subarea **MOLECULAR PLANT PHENOTYPING - PLANT METABOLOMICS**.

This is an international application procedure and is ruled by the provisions of article 11 and seq. of the Decree Law 57/2016, of August 29th, altered by Law 57/2017 of July 19th for the development of scientific and research activities, under the framework of the research unit GREEN-IT, UIDP/04551/2020, funded by Fundação para a Ciência e a Tecnologia (IP).

Order from the Rector: This call is open by order issued by the Rector of UNL, on July 23, 2020.

I – Job description:

1) Work place:

ITQB NOVA and AGROTECH Campus of Oeiras.

2) Job description:

- We are recruiting an enthusiastic, motivated and experienced Post-Doc researcher for a Junior Researcher position in **Molecular Plant Phenotyping - Plant Metabolomics** integrated in the Research Unit GREEN-IT Bioresources for Sustainability, that involves laboratories from five Institutions (<http://www.itqb.unl.pt/green-it/green-it-2020-2023>). GREEN-IT was recently evaluated with Excellent by the National Science Foundation (FCT).
- The researcher will work primarily at the newly-established PLANT ECOPHYSIOLOGY AND METABOLISM lab of ITQB NOVA (<https://www.itqb.unl.pt/research/plant-sciences>) and part of her/his work will be done at UniMS (<https://www.itqb.unl.pt/research-facilities/>) in a collaborative

effort to develop a metabolomics-based molecular phenotyping platform to serve the GREEN-IT research unit (<http://www.itqb.unl.pt/green-it/groups>)

- The Junior Researcher position is aimed to develop methodologies and strategies for high throughput quantitative mass spectrometry-based metabolomics in plants at the Mass Spectrometry Unit research facility (UniMS) of ITQB NOVA/iBET. UniMS provides state-of-the-art Mass Spectrometry services to the scientific community at ITQB NOVA, as well as external services. The selected person will use metabolomics techniques based on LC-MS approaches to optimize the identification and quantification of metabolites (e.g., organic acids, sugars, amino acids, secondary metabolites) in different plant species, genotypes, organs, growth stages and environmental conditions used by different groups of the GREEN-IT Unit. The position will involve the optimization of protocols for sample preparation and extraction, identification and quantification of plant metabolites, data processing, data mining, and statistics. The candidate will work closely together with the different research groups of GREEN-IT under the supervision of Drs. Rubén Vicente and Isabel Abreu.
- The researcher may participate in teaching (<https://www.itqb.unl.pt/education>), at the level of Masters (MSc Biotechnology for Sustainability) and PhD (Plants for Life International) degrees.

Agenda 2030 Goals addressed with this position:

Goal 2 - Zero hunger (reach food security, improve nutrition and promote sustainable farming);

Goal 12 - Responsible production and consumption.

3) Remuneration, start date and applicable legislation:

The researcher will be hired at the salary position-TRU 33, corresponding to a gross annual salary of **30,846.90 €**.

It is foreseen that the contract starts in March 2021.

Employment contract for an uncertain term (according to the article 18, paragraph b), and paragraph 1 and 3 of article 6, DL No. 57/2016, of August 29, amended by Law No. 57/2017, of July 19, for a period of 36 months, eventually renewable.

II – Requirements:

1) General admission requirements:

In accordance with No. 1 of the article 10 of Research Scientific Career Statutes, this procedure has the following general requirements:

- a) Hold a PhD in Plants Sciences or relevant subjects (biology, biochemistry, metabolomics, food chemistry, analytical chemistry)
- b) Hold a scientific and professional curriculum whose profile is suited for the activity to be performed, including relevant and proven experience in metabolomics and relevant track record in plant sciences.

If the doctoral degree has been conferred by a foreign higher education institution (not Portuguese), it must comply with the provisions of Decree-Law No. 66/2018, of August 16, and with all formalities established therein, which must be fulfilled by the application deadline. **The ITQB NOVA Academic Services may further enlighten about this, but candidates may go to the website:** <https://www.dges.gov.pt/pt/content/recautomatico>.

2) Specific Admission Requirements:

- a) Relevant and proven experience in the areas of the application, namely in in metabolomics, data processing and analysis;
- b) Relevant publication track record in Plant Sciences supported by first-author publications in peer-reviewed journals;
- c) Ability to work independently and collaborative spirit (within a team);
- d) Excellent interpersonal skills;
- e) Good communication skills (oral and written);
- f) High motivation to contribute to GREEN-IT research goals;
- g) Fluency in English (spoken and written).

III – Submission of the applications:

1) Documents required in the application:

- a) Motivation Letter;
- b) Copy of the PhD certificate or diploma;
- c) Detailed *Curriculum vitae*;
- d) Copy of selected published papers mentioned in the CV;
- e) Contacts of two references.

2) How to submit the application:

Applications containing all the aforementioned documents must be submitted within 17 working days from the date of publication in *Diário da República*.

- 1) All documents must be sent as a **single PDF** file (if too big, the work published may be sent as an independent file) by email to concursos@itqb.unl.pt, indicating the reference mentioned in the beginning of this call, in the subject - **Ref. 018/TRI-IJun/2020-GREEN-IT**.
- 2) Failure to submit any mandatory documents under the current notice, shall result in the exclusion of the candidate from the procedure.

IV – Methods of selection and definition of their weights/evaluation criteria:

Curricular evaluation involves evaluation of *Curriculum vitae* and Motivation Letter, as specified in general and special requirements.

Only a sub-set of the candidates will be selected for interview (the 4 best qualified from the Curricular assessment).

The curricular evaluation will be 90% of the evaluation and the interview 10%.

V – Selection process:

After the deadline for the applications, the Committee meets for assessing and ranking the candidates.

1) Definition of the selection criteria and their parameters and classifications:

Curricular evaluation (*Curriculum vitae* evaluation and motivation letter, as specified in the general and specifics requirements).

Interview when applied (candidates better qualified in Stage-1 assessment).

The selection methods, their weightings and classification system will be listed in Minutes 1 of the Jury meetings, available at [http://www.itqb.unl.pt/jobs/Ref. 018/TRI-IJun/2020-GREEN-IT](http://www.itqb.unl.pt/jobs/Ref.018/TRI-IJun/2020-GREEN-IT)

2) Notification of Results: All candidates will be informed of the decisions by email.

Non-discrimination and equal access policy:

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 Decree-Law no. 29/2001, of February 3, the candidate with a disability has preference under conditions of equal classification, which prevails over any other legal preference. Candidates must declare on the application form, on his/her word of honor, the respective degree of disability, the type of disability and the means of communication to be used in the selection process, in accordance with the above-mentioned diploma.

The Full Notice of this procedure will be available on the FCT website <http://www.eracareers.pt/>, on the page <https://euraxess.ec.europa.eu/> and on the electronic page of ITQB NOVA **Ref. 018/TRI-IJun/2020-GREEN-IT**.

The application must be sent by e-mail, indicating the reference mentioned above in title, to the e-mail address concursos@itqb.unl.pt until 17h (GMT) of February. 24th, 2021.

Composition of the Selection Committee:

The selection committee has the following composition:

President:	Professor M. Margarida Oliveira
1 st member:	Doctor Isabel A. Abreu
2 nd member:	Doctor Rubén Vicente
1 st alternate member:	Doctor Nelson José M. Saibo
2 nd alternate member:	Doctor Patrícia Alves