

CALL OPEN FOR THE RECRUITMENT OF A DOCTORATE FOR CONTRACTING PURPOSES UNDER DECREE-LAW No. 57/2016, OF 29th OF AUGUST

1. By deliberation, on the 4th of november 2021 of the Executive Board of National Laboratory of Energy and Geology (LNEG), an international call is open for the recruitment of one (1) doctorate, under a work contract in public functions at term, for the period of thirty six months, with the purpose of developing research activities within the scientific area of Chemical Engineering and related areas in the scope of the R&D project entitled **MULTI-STR3AM – A sustainable multi-strain, multi-method, multi-product microalgae biorefinery integrating industrial side streams to create high-value products for food, feed and fragrance** with the reference **H2020-BBI-JTI-2019 Grant Agreement 887227**, financed exclusively by **BBI JU** under **EC Horizon 2020** framework program, to perform research activities under the Work Packages WP5 (Social, environmental and economic impact assessment) and WP3 (Biomass refining).

2. Applicable Legislation:

- Decree Law nº 57/2016 of August 29, which approved the regime of PhD contracting with the purpose of stimulating scientific and technological employment in all areas of knowledge (RJEC);
- Decree-Regulatory nº. 11-A / 2017, of December 29, which regulates the remuneration levels of contracts entered into under Decree-Law No. 57/2016 of August 29;
- General Labor Law in Public Functions (LTFP), approved in annex to Law no. 35/2014 of June 20, in its current version;
- Decree-Law N° 124/99, of April 20, which approved the Statute of the Scientific Research Career.

3. Under the terms of Article 16 of Decree-Law nº 57/2016, of August 29, the present procedure is exempt of the authorization of two members of Government responsible for the areas of finances and Public Administration, namely the procedure of recruitment of workers in situation of requalification, referred to in article 265º of LTFP.

4. Functions to be performed

Carrying out scientific research activities within the Work Packages (WP) indicated above, with particular emphasis on:

- a) Simulation, optimization and integration of processes using engineering software such as Aspen Plus and/or SuperPro Designer
- (b) techno-economic analysis of biorefineries

c) Life Cycle Assessment (Environmental, Social and Socio-economic) using LCA software (SimaPro)

5. In conformity with Article 13 of the RJEC, the jury of the call procedure has the following composition:

President of the Jury: Helder Perdigão Gonçalves, Executive Member of the CD of LNEG;

1st Member: Francisco Manuel Ferreira Gírio, Head of Bioenergy and Biorefineries Unit at LNEG;

2nd Member: Alberto Reis, Deputy Head of Bioenergy and Biorefineries Unit and project manager at LNEG;

3rd Member: Tiago Lopes, Researcher at LNEG;

Substitute Members: Teresa Lopes da Silva, Researcher at LNEG; and Rafal Lukasik, Principal Researcher equivalent at LNEG

6. The workplace shall be at LNEG - Polo do Lumiar, located at Estrada do Paço do Lumiar 22; 1649-038 Lisbon, Portugal.

7. The remuneration is set at the Level 33 of the Single Remuneration Table, approved by Portaria nº 1553-C/2008, of the 31st of December, which corresponds to the value of 2,153,94 Euro.

8. General requirements:

a) Candidates can be national, foreigners and stateless holding a PhD degree in Chemical Engineering or related disciplines relevant for the project and holding a scientific and professional curriculum which reveals a profile suited to the activities to be developed.

b) In case the PhD has been conferred by foreign institution in high studies system, the same has to obey to the established in the Decree Law nº 66/2018, of the 16th of August, and related legislation, and any formalities there established need to be completed until the date of term for the application.

c) Other general requirements for the admission are defined in Article 17º of LTFP.

If the PhD degree has been awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law No. 341/2007 of 12 October, and any formalities established therein must be completed by the deadline for application.

Recognition of foreign degrees will only be required of candidates selected for the conclusion of the employment contract. Failure by the candidate to present this recognition within the time limit set for signing the contract will result in the candidate being awarded 2nd place and so on.

9. Preferential requirements:

- a) Experience in research with multidisciplinary teams in Chemical Engineering and related areas;
- b) Experience in Life Cycle Assessment studies (environmental, economic and social);
- c) Experience in process design and simulation using appropriate software (Aspen Plus and/or SuperPro Designer);
- d) Experience in technical-economic analysis of processes (projects);
- e) Scientific papers published in international peer reviewed journals.

10. These are evaluation criteria, in descending order of importance:

- a) suitability and merit of the candidate's academic curriculum taking into account the area of competition as well as the specific requirements mentioned in point 9;
- b) Relevant previous experience (including coordination and participation in R&D projects and scientific publications in the project area);
- c) Interview (only the first three candidates selected on the basis of criteria a) and b).

11. The evaluation process includes an interview of the candidates selected by the selection board (only the three selected on the basis of criteria 10a and 10b).

12. The final ranking system for candidates is expressed by the following formula:

Total: $0.40 \times A + 0.45 \times B + 0.15 \times C$, in which:

A is the score between 0 and 5 obtained in point 10a;

B is the score between 0 and 5 obtained at point 10b;

C is the score between 0 and 5 obtained at point 10c.

13. The jury shall take its decision by roll-call vote on the basis of the selection criteria adopted and announced, no abstentions being permitted.

14. Minutes shall be drawn up of the meetings of the jury, containing a summary of what has occurred in them, as well as the votes cast by each of the members and their respective grounds, and the candidates shall be given the opportunity to do so whenever requested.

15. Once the selection criteria have been applied, the selection board draws up a ranked list of successful candidates.

16. The final decision of the selection board is approved by the head of the institution who is also responsible for deciding on recruitment.

17. Formalization of applications:

17.1 Applications are formalized upon request addressed to the President of the National Energy and Geology Laboratory, which contains the identification of this notice, full name, affiliation, number and date of identity card, citizen card, or civil identification number, tax identification number, date and place of birth, marital status, profession, residence and contact address, including email address and telephone contact.

17.2 The application must be accompanied by the supporting documents for admission to the competition, as specified in points 8 and 9 in particular:

- a) Copy of certificate or diploma;
- b) A detailed curriculum vitae, structured in accordance with points 8 and 9;
- c) Other documents relevant to the assessment of the qualification in a related scientific area (e.g. PDF of the PhD thesis);

17.3 Candidates submit their applications and supporting documents, preferably in digital format, in PDF format, to the e-mail address recrutamentoinvestigacao@lneg.pt, in person at the LNEG Alfragide campus, located at Estrada da Portela - Zambujal - Alfragide, during office hours, or by post to the same address. When sent by post, the mail must be registered, with acknowledgement of receipt, sent by the last day of the deadline for opening the competition, which is set at 10 working days after publication of this Notice.

18. Candidates who incorrectly formalise their application or fail to prove the requirements of this competition will be excluded from admission to the competition. The selection board has the power to require any candidate, in case of doubt, to provide supporting documents for their statements.

19. False statements by candidates will be punished in accordance with the law.

20. The list of admitted and excluded candidates as well as the final ranking list are posted on the premises located in the atrium of the LNEG Alfragide campus, located at Estrada da Portela - Zambujal - Alfragide and advertised on the LNEG website, www.lneg.pt. Candidates are notified by e-mail with receipt of the notification.

21. Prior Hearing and Deadline for Final Decision: According to Article 121 of the Administrative Procedure Code, after being notified, candidates have 10 working days to give their opinion. Within 30 working days from the deadline for submission of applications, the final decisions of the selection board will be made.

22. This competition is solely for the purpose of filling the vacant post indicated and may be terminated until the final ranking list of candidates has been approved and the post on offer expires.

23. Non-discrimination and equal access policy:

The National Energy and Geology Laboratory actively promotes a policy of non-discrimination and equal access, so that no candidate may be privileged, benefited, prejudiced or deprived of any right or duty on the grounds of ancestry, age, sex, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership.

24. According to D.L. no. 29/2001 of 3 February 2001, the candidate with a disability has equal ranking preference, which prevails over any other legal preference. Candidates must declare on the application form, on their honour, their degree of disability, the type of disability and the means of communication/expression to be used in the selection process, in accordance with the above-mentioned diploma.