

**NOTICE OF OPENING OF INTERNATIONAL PUBLIC COMPETITION, FOR THE
RECRUITMENT OF A DOCTORATE FOR CONTRACTING PURPOSES UNDER DECREE-
LAW No. 57/2016, OF 29TH OF AUGUST.**

1. By determination of the Board of Directors of the LNEG- IP, National Laboratory of Energy and Geology , Public Institute, of the 23rd of January, 2018 , the International selection procedure is open for a **PhD** place for the exercise of scientific research activities in Energy Science, under a contract of employment in public functions for a certain term, for the period of two years, with the purpose of development of research activities under the Scientific Research Infrastructures Project, "NZEB_LAB - Research Infrastructure for the Integration of Solar Systems into Buildings" (Ref. LISBOA-01-0145-FEDER-022075), financed by national funds through the FCT / MCTES (PIDDAC) and co-financed by the European Regional Development Fund (ERDF) of the Regional Operational Program of Lisbon, to perform activities under the A2 Research activities - Research activities that include A2.1 - Research and new experimental applications , innovative solar systems (laboratory and integrated in the building) ; A2.2 - Characterization of the Systems Assayed; A2.3 - Design of new concepts of solar energy systems for new buildings and for building rehabilitation; A2.4 - Pre-normative work and technology transfer; A3 - Access to infrastructure and availability of services.

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 Career of Scientific Research.

3. Under the terms of Article 16 of Decree-Law n° 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 265° of LTFP.

4. Functional content

The functional content corresponds to the category of auxiliary researcher (Investigador Auxiliar), contained in paragraphs 1 and 4 of article 5th of DL n°. 124/99, of April 20.

It is up to the auxiliary researcher to execute research activities including experimental and numerical research of new applications of innovative solar systems integrated in building façades, characterization of the systems tested, research in new concepts of solar energy systems for new buildings and for building rehabilitation, pre-normative work and technology transfer, access to infrastructure and availability of services. Within these activities, the candidate will:

- a) Prepare guidelines of equipment requirements necessary for solar equipment test - this information is not available in the market, ready to use, therefore it is required the definition of characteristics;
- b) Prepare proposals to be submitted to national and European funding programs;
- c) Conduct research of national partners in research units and companies that are potential users of the NZEB_LAB infrastructure;
- d) Conduct partner research in international research units similar to the NZEB_LAB infrastructure in order to establish cooperation, inter-laboratory comparison tests, research projects, training, etc.
- e) Orientation of master and Phd thesis in the framework of the testing activities within the NZEB_LAB infrastructure;
- f) Prepare scientific publications and patents.

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

President of the Jury : Doctor Helder Perdigão Gonçalves , Executive Member of the CD of LNEG, Principal Researcher, as Researcher in charge of the Project;

1ºVowel: Dr. G URA Aelenei Elena, Research Officer LNEG;

2nd Vowel: Professor Eduardo Alberto Baptista Maldonado, Full Professor FEUP

3ºVowel: Doctor António Luiz Moura Joyce, Principal Researcher LNEG;

4ºVowel: Doctor Maria João Carvalho, Principal Researcher LNEG .

6. The place of work is located at LNEG - Polo do Lumiar, Rua do Lumiar, 22; 1649-038 Lisbon; Portugal.
7. The remuneration is annexed to the category of Auxiliary Researcher, according to the provisions of Article 15 of RJEC and Decree N.º 11-A / C 2017 correspondent the intermediary remuneration level between 53 and 54 of the remuneration table, approved by Portaria n.º 1553-C/2008, 31st of December, which corresponds to the value of 3.191,82 Euros.
8. The candidates to the contest can to be national, foreigners and stateless who have the title of Doctor in Mechanical Engineering or similar scientific area, and with a scientific and professional curriculum which reveals a suitable profile to the activity to develop, namely having at least 5 years of experience in research and development projects and in the experimental testing of solar systems, heat pumps and numerical simulation in TRNSYS environment and in computational fluid mechanics programs. The preferential factors are, to have experience and knowledge related to the execution of experimental tests of thermal systems in the context of Accredited Laboratory according to ISO / IEC 17025. Definition of new experimental test methodologies. 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 n.º 341/2007, of the 12th of October, and any formalities there established need to be completed until the date of term for the application.
9. General requirements for the admission to the contest are those defined in Article 17º of LTFP and the specific requirements defined at the previous number.

10. Under the terms of article 5th of RJEC the selection is performed by the evaluation of the scientific and curricular path of the candidates.
11. The evaluation of the scientific and curricular path takes into consideration the relevance, quality and actuality:
 - a) Of the scientific production over the last five years considered most relevant by the candidate;
 - b) Of the research activities applied or based on practice, developed over the last five years and considered of bigger impact by the candidate;
 - c) Of the activities of extension and dissemination of knowledge developed during the last five years, namely in the context of the promotion of culture and scientific practices, considered of bigger relevance by the candidate;
 - d) Of the activities of management of science programs, technology and innovation, or experience in the observation and monitoring of the scientific and technological system or in teaching in higher education, in Portugal or abroad.
12. The period of five years to which refers the previous number, can be increased by the jury, at the candidates request, when based in the suspension of the scientific activity due to reasons socially protected, such as parenting license, prolonged serious disease, and other situations legally protected, which unable the practice of the job.
13. The evaluation criteria, in descending order of importance, are:
 - a) Adequacy and merit of the academic curriculum of the candidate taking into account the area of the competition;
 - b) Previous relevant experience (including works published in the area);
 - c) Interview (only to candidates selected on the basis of criteria (a) and (b)).
14. The process of evaluation includes an interview to part of the candidates selected by the jury (only candidates selected based on criteria 13 .a) and 13 .b).
15. The final classification system of the candidates is expressed by the following formula:

Total: $0,5 \times A + 0,40 \times B + 0,10 \times C$ in which:

A is the rank between 0 and 5 obtained in point 13a ;

B is the rank between 0 and 5 obtained in point 13 .b;

C is the rank between 0 and 5 obtained in point 14 .

16. The jury deliberates through nominal voting based in the selection criteria adopted and published, no abstentions being allowed.
17. The meetings of the jury are registered in minutes, which contain a resume of the meeting, as the well as the votes issued per each one of the members and respective reasons, being supplied to the candidates whenever requested.
18. Upon conclusion of the application of the selection criteria, the jury proceeds with the elaboration of the list ordering the approved candidates with the respective classification.
19. The final deliberation of the jury is homologated by the President of the institution, who also has the powers to contract the selected candidate.
20. Formalization of applications:

20.1 The applications are formalized upon request, available in the electronic address <http://www.lneg.pt/lneg/colaborar>, addressed to the President of the National Laboratory of Energy and Geology, which includes the identification of this notice, full name, names of parents, number and date of identification document card, Citizen's Card, or civil identification number, tax identification number, date and place of birth, marital status, profession, residence and contact address, including e-mail address and telephone contact.

20.2 The application is accompanied by of documents supporting the conditions established in point 7 and 8 for admission to the present competition, in particular:

- a) Copy of certificate or diploma;
- b) PhD Thesis;

- c) Curriculum Vitae detailed and structured according to the items in points 10 and 12;
- d) Other documents relevant for the evaluation of the competence in similar scientific area;
- e) Other documents (*candidate should present the information to which refers n° 2 of article 5th of RJEC, as well as any information additionally fixed by applicable regulation and by the notice of opening of the competition procedure*)

20.3 The candidates present their requests and supporting documents, in preference in digital support, in PDF format, to the e.mail <http://www.lneg.pt/lneg/colaborar> or in person at the LNEG campus of Alfragide , located at Estrada da Portela, Bairro do Zambujal, Alfragide , during the opening hours, or by post to the same address. When sent by card, it must be registered, with notice of reception, and posted until the last day of the deadline for the contest, which is fixed in **30 working days after publication of this Notice.**

21. Are excluded from admission to the competition the candidates whose application is not correctly formalized or who do not prove the requirements referred in the present competition. The jury has the right to demand from any candidate, in case in doubt, the presentation of documents supporting their declarations.

22. False declarations provided by the candidates are punished by law.

23. The list of candidates admitted and excluded as well as the final classification list are affixed in the installations of LNEG at Alfragide campus, lobby, located at Estrada da Portela - Zambujal - Alfragide, and published in the electronic page of LNEG, www.lneg.pt , being the candidates notified by e.mail with receipt in delivery of notification.

24. Previous Hearing and Final Decision: under the terms of article 121º of the Administrative Procedure Code, the candidates have, upon notification, 10 working days to comment. After the deadline of 10 days counted from the deadline for the submission of applications, the final decisions of the jury are issued.

25. The present competition is aimed, exclusively, to fulfill the vacancy indicated, and can be terminated until the homologation list with the final order of the candidates, and expires with the respective occupation of the job on offer.
26. **Policy in no discrimination and in equality in access** : The National Laboratory of Energy and Geology promotes actively a policy of no discrimination and in equality in access, hence no candidate can be privileged, benefited, or damage in any right for exempt of any duty in reason of, namely, ancestry, age, sex, sexual guidance, marital state, family situation, economic situation, instruction, social origin or condition, genetic inheritance, reduced capacity, deficiency, chronic disease ,nationality, ethnies or breed, territory of origin, language, religion, politics or ideological convictions and union membership.
27. Under the terms of Decree-Law nº 29/2001, of the 3rd of February, in case of equal classification, the candidate with deficiency has preference, which prevails to any other preference right. The candidates must declare in the application form, under commitment of honor, the respective degree of inability, the type of deficiency, and the means of communication/expression to use during the selection procedure, according to the terms of the above mentioned Decree-Law.