



ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL

Notice of opening of international selection procedure for the recruitment of one doctorate research associate (Ref. T4ENERTEC POCI-01-0145-FEDER-029820)

1. In the ADAI Board of Directors meeting on the 24th August 2018, it was decided to open an international selection competition for one PhD research associate position within the Project T4ENERTEC, Tools for supporting the selection of energy efficient technologies, Project number POCI-01-0145-FEDER-029820, funded by FEDER and OE. Under unfixed term contract according with the Project and the applicable legislation, the PhD researcher will perform the following tasks, according to the approved work program of the project:

Development of a hybrid input-output life-cycle model to evaluate the energy, environmental and cost impacts of different energy efficient technologies addressing the contribution of building life-cycle phases and processes and building energy performance simulations.

Development of a multiobjective optimization model to support public bodies with the selection of the energy efficient technology portfolios.

2. Applicable Legislation

Decree-Law no. 57/2016, of August 29, (amended by Law n. 57/2017 of 19 July), as well as the Regulatory-Decree n. 11-A/2017, from 29 December approving a regime for contracting doctorates, aimed at stimulating scientific and technological employment in all areas of knowledge (RJEC); and, Labor Code, approved by Law no. 7/2009, of February 12, in its current version.

3. In accordance with article 13 of the RJEC, the selection committee of the competition is composed as follows:

- 1) President - Prof. Fausto Freire, Assistant Professor, Department of Mechanical Engineering, Faculty of Science and Technology, University of Coimbra.
- 2) Prof. Álvaro Gomes, Assistant Professor, Department of Electrical and Computer Engineering, Faculty of Science and Technology, University of Coimbra.
- 3) Prof. Carlos Henggeler Antunes, Full Professor, Department of Electrical and Computer Engineering, Faculty of Science and Technology, University of Coimbra.

4. The location of employment is the Center for Industrial Ecology at ADAI's laboratory or the Department of Mechanical Engineering, Pólo II of Faculty of Sciences and Technology of the University of Coimbra, Coimbra, Portugal, or in other places required for the execution of the work plan.

5. The monthly remuneration to be attributed corresponds to level 33 of the unique remuneration table, approved by Administrative Rule no. 1553-C/2008, of December 31, and is of the value of 2128,34 Euros. Benefits include a daily lunch subsidy of 4.77 Euros.



ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL

6. The selection process is open to national, foreign and stateless candidates who hold a Ph.D. degree in Engineering, Sustainable Energy Systems, Economics, or related fields and holders of a scientific and professional curriculum that shows a profile appropriate to the activity to be developed, namely experience (e.g. papers published in WOS Journals) in one or more of the topics: life-cycle assessment/management incorporating uncertainty analysis, building energy performance simulation, operations research including skills in mathematical modeling and optimization methods.

Candidates with qualifications obtained abroad shall make proof that their Ph.D. was recognized by a Portuguese Higher Education Institution pursuant to Decree-Law no. 283/83, of June 21st, or otherwise registered under Decree-Law no. 341/2007, of October 12th. This document (either recognition or registration) is mandatory to sign the contract.

7. In accordance with article 5 of the RJEI, the selection is made through the evaluation of the scientific, technological and curricular background of the candidates.
8. The evaluation of the scientific, technological and curricular background will give priority to the relevance, quality and timeliness of the candidate's activities during the past five years.
9. The period of five years referred to in the preceding paragraph may be extended by the selection committee, at the request of the candidate, when justified on the grounds of suspension of scientific activity for socially protected reasons, namely on the grounds of parental leave, prolonged serious illness and other legally protected reasons for unavailability to work.
10. Required Profile:
Academic qualification: PhD in Engineering, Sustainable Energy Systems, Economics, or related fields.

Minimum requirements:

- a) PhD degree;
- b) Demonstrated experience (e.g. papers published in WOS Journals) in one or more of the topics: life-cycle assessment/management incorporating uncertainty analysis, building energy performance simulation, operations research including skills in mathematical modeling and optimization methods.

Other requirements:

- a) Capability of writing technical/scientific documents in English language;
- b) Leadership, a strong motivation to work in a team, combining excellent organization skills with the ability to meet deadlines;
- c) Excellent communication skills and ability to establishing collaborative links with the other project researchers at CIE-ADI and INESC.



ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL

11. The evaluation of the scientific, technological and curricular background of the candidates will focus on the relevance, quality, timeliness and suitability of their background to the functions to be performed, according to the following curricular criteria:
C1: Quality of the CV (scale 0-100);
C2: Prior expertise in the field (scale 0-100).
The final score of the curricular criteria (CCS) will be obtained by the expression:
 $CCS = 0,7 \times C1 + 0,3 \times C2$.
12. The three best candidates according to score in the curricular criteria (CCS) will be called for an interview with the selection committee, which may be conducted remotely by skype or videoconference if the candidate requires it. The score of the interview (IS) will be expressed in the scale 0 – 100.
13. The final score (FS) of the candidates selected for the interview will be determined according to the expression: $FS = 0,9 \times CCS + 0,1 \times IS$.
14. Minutes of the selection committee meeting including a report of the evaluation is available to the candidates whenever requested.
15. After completion of the evaluation process, the selection committee will draw up a list of the eligible candidates in order of their classification.
16. If the selected candidate is not willing to occupy the position, the selection committee can decide to invite the next eligible candidate in the ordered list.
17. The final evaluation of the selection committee will be approved by the ADAI Board of Directors, which also makes the decision on the hiring.
18. Application Procedure:
 - a) Application to the position is formalized by sending the following information addressed to the Selection Committee reference of number of this position (given at the top of this document), full name, number and date of the Citizen's card or civil ID, tax identification number, date and place of birth, residence and contact address, including e-mail address and telephone contact.
 - b) The application shall be accompanied by documents proving the conditions described in point 6 for admission to this selection process, in particular:
 - Copy of certificate or diploma;
 - Detailed curriculum vitae;
 - List of publications, including DOI link and Journal (JCR) impact factor (when applicable).
 - c) The candidates should send their applications and supporting documents, in digital (PDF) format, to the email address fatima.guedes@dem.uc.pt with Cc to fausto.freire@dem.uc.pt, agomes@deec.uc.pt and ch@deec.uc.pt.



ASSOCIAÇÃO PARA O DESENVOLVIMENTO DA AERODINAMICA INDUSTRIAL

d) The deadline for application is **the 13th of December 2018.**

19. Candidates who incorrectly formalize their application or who do not give adequate proof of the requirements of this selection process are excluded from admission to the competition. The selection committee has the power to require any candidate, in case of doubt, to present documents proving his statements.
20. Candidates who do not obtain a final mark equal to or greater than 70 points will not be allowed to fill any of the posts in tender for lack of absolute merit.
21. False statements by candidates shall be punished in accordance with the law.
22. Admitted and excluded candidates will be notified of their inclusion or exclusion by email. The final classification of eligible candidates will be sent to each candidate by email with notification of receipt of delivery.
23. Prior hearing and deadline for the Final Decision: After being notified, the candidates have 10 working days to comment the decision. Within a maximum of 10 days from the deadline for prior hearing, the final decisions of the selection committee will be given.
24. The present selection process is exclusively intended to fill the vacancy indicated and it is terminated when the final list of candidates is approved, and the advertised position is filled.
25. Non-discrimination and equal opportunity policy: ADAI actively promote a policy of non-discrimination and equal opportunity.
26. The selection committee approved this notice on the 8th of October 2018.
27. Under DL No. 29/2001, of February 3, a disabled candidate is given preference in the case of equal classification, which prevails over any other legal preference. Candidates must declare their respective degree of incapacity, the type of disability and the means of communication / expression to be used in the selection process, under the terms of the aforementioned diploma, on the application form.