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English

1. Descrição do cargo/posição/bolsa

1. Job description

Job:

Post-doctoral initial level researcher (equivalent to an Assistant Researcher)

Job/Fellowship Reference: Portuguese Gazette: Diário da República, 2.ª série, Parte E, N.º 18 de 27-01-2021 Código de Oferta: OE202101/0639 BEP

Main research field: Physics

Sub research field:

Job summary:

International tender to recruit one (1) post-doctoral initial level researcher to perform duties in the scientific area of Physics, Engineering Physics or related areas, for the Research Unit CEOT (Center for Electronics, Optoelectronics and Telecommunications) of Universidade of Algarve

Job description:

ANNOUNCEMENT INTERNATIONAL TENDER FOR THE RECRUITMENT OF A POST-DOCTORAL ASSOCIATE RESEARCHER 1. Pursuant to the Doctoral Hiring regime to stimulate Scientific and Technological Employment in all knowledge areas approved by the Decree-Law 57/2016 of 29 August, with the wording given by Law 57/2017 of 19 July, and by order of the Rector of the Universidade do Algarve dated October 28th, 2020, authorisation has been given for the opening of an international tender to recruit one (1) post-doctoral initial level researcher to perform duties in the scientific area of Physics, Engineering Physics or related areas, for the Research Unit CEOT (Center for Electronics, Optoelectronics and Telecommunications) of Universidade do Algarve in the form of a fixed-term public service contract. 2. The employment contract has a duration of three (3) years, automatically renewable for further periods of one (1) year, up to a total duration of six (6) years, unless, without prejudice for other grounds for termination or extinction covered by the law, the institution's scientific body proposes to terminate the contract, which must be notified to the interested party within 90 days before the expiry date of the initial contract or of the renewal, based on an unfavourable evaluation of the work developed by the post-doctoral researcher, carried out under the terms of the regulation to be approved, being decisive, in addition to other tasks, the promotion and obtaining of sources of external funds to guarantee future research in the area for which he or she was hired. 3. The tender is open for a period of ten business days. The tender notice has been published on the BEP (Public Employment Exchange) under the URL www.bep.gov.pt, on the website of the FCT, IP (Foundation for Science and Technology), at www.eracareers.pt, and on the website of the Universidade do Algarve, at www.ualg.pt. 4. Applicable legislation: Decree-Law 57/2016 of 29 August, amended by Law 57/2017 of 19 July, which approves the Doctoral Hiring regime to stimulate Scientific and Technological Employment in all knowledge areas ("RJEC"); the General Law for Public Service Employment approved in the appendice to Law 35/2014 of 20 June ("LTFP"), in its current wording, Regulatory Decree n.º 11-A/2017 of 29th December and the Code of Administrative Procedure ("CPA"). 5. Pursuant to article 16 of Decree-Law 57/2016 of 29 August, amended by Law 57/2017 of 19 July, this tender does not require: a) authorisation from the members of the Government responsible for the areas of taxation and Public Administration, specifically those made reference to in article 7, paragraph 3, of the General Law for Public Service Employment; b) a favourable preliminary opinion from the members of the Government responsible for the areas of taxation and Public Administration, as made reference to in article 30, paragraph 5, of the General Law for Public Service Employment; c) the recruitment procedure for workers undergoing retraining, as made reference to in article 265 of the General Law for Public Service Employment. 6. Pursuant to article 13 of the RJEC, the tender jury panel shall comprise the following members: President: Rui Manuel Farinha das Neves Guerra, CEOT coordinator and Assistant Professor at the University of Algarve Effective members: Noélia Susana Costa Correia, CEOT vice-coordinator and Assistant Professor at the University of Algarve João Alberto dos Santos Mendanha Dias, Assistant Professor at the Instituto Superior Técnico, Lisbon University Substitute members: Álvaro Mascarenhas Pereira Nascimento Lima Barradas, Assistant Professor at the University of Algarve Peter Stallinga, Associate Professor at the University of Algarve 7. The recruited postdoctoral researcher will perform his/her duties at the Universidade do Algarve Gambelas campus in Faro, notwithstanding occasional situations in which he/she will be asked to perform the duties for which he/she was recruited at a different location. 8. Job responsibilities and duties: research activities related to the execution of the CEOT strategic project, namely: i) development of machine learning algorithms for the implementation of sensor networks; ii) modeling and data acquisition of optical and electrical sensors; iii) development of algorithms for regression, classification and prediction of plant physiological data from optical and electrical signal databases, to be collected during the project. 9. The postdoctoral researcher may be asked to teach 4 hours per week of curricular units within his/her area of expertise. 10. The gross monthly salary to be paid shall be

€2,134.73 (two thousand one hundred and thirty four euros and Seventy-three euro cents) pursuant jointly to: article 15, paragraph 1, of Decree-Law 57/2016 of 29 August, with the amendments introduced by Law 57/2017 of 19 July; and to Regulatory Decree 11-A/2017 of 29 December, corresponding to level 33 on the Single Salary Scale approved by Ordinance 1553-C/2008 of 31 December. 11. . This tender is open to Portuguese citizens, nationals of other countries and stateless persons who hold a doctoral degree in the scientific area of Physics, Engineering Physics or related areas and to holders of a scientific and professional curriculum with a profile appropriate for the activity to be developed. When the PhD has been awarded by a foreign higher education institution, it must comply with the rules established in the Portuguese legal regime for the recognition of foreign higher academic degrees, and the candidate must comply with the formalities required by law until the expiry date of the period allowed for the contract signature, under penalty of exclusion from the tender proceedings.

12. The requirements listed in article 17 of the LTFP are general requirements for applications.

13. The requirements set out in point 11 are special requirements, more specifically the successful candidate must: a) Have post-doctoral experience in at least three of the following areas relevant to CEOT's strategic project: (A) Infrared spectroscopy and chemometrics modeling applied to plant tissues (B) Physical modeling of complex systems (C) Machine learning methods applied to data regression (D) Electronic instrumentation (E) Measurements and/or simulations of optics (F) Complex network theory b) Have at least 3 years of post-doctoral experience with a scholarship or contract associated with these research areas; c) Have excellent knowledge of English (oral and written).

14. Pursuant to article 5 of the RJEC, selection will be based on the assessment of the scientific and curricular background of each applicant.

15. The evaluation of the scientific and curricular background of each applicant will focus on relevance, quality and topicality of: a) scientific, technological, cultural or artistic production in the last five years considered as most relevant by the applicant; b) research activities, applied or based in practice, conducted in the last five years and considered as being most impactful by the applicant; c) activities to expand and disseminate knowledge carried out in the last five years, specifically in the context of the promotion of culture and scientific practices, considered as most relevant by the applicant; d) management activities related to science, technology and innovation programmes, or experience in observing and monitoring the scientific and technological or higher education system in Portugal or abroad.

16. The five-year period mentioned in the previous point may be increased by the panel, at the applicant's request, if the said applicant has suspended his/her scientific activity for reasons such as maternity/paternity leave, prolonged serious illness and other situations of legally-provided-for unavailability to work

17. The assessment criteria defined by the panel in the minutes of the meeting held on November 17th, 2020, pursuant to point 15, are: a) The scientific, technological and cultural production in the last 5 years considered most relevant by the applicant (9 points) a.1) The category of scientific production includes scientific journal papers, book chapters, editor role in book publishing, oral and poster presentations to conferences. The jury may also consider other forms of scientific production presented by the candidates if appropriate under CEOT's project framework. For the global assessment of the candidates' scientific production, the jury will take into account the following factors: • Intrinsic quality of the candidate's work. • Relevance of the candidate's work to the areas A) to F) listed in 13a). • The most common bibliometrics parameters will not play a major role in the evaluation, but they will provide auxiliary information. Therefore, bibliometrics will be considered, taking into account the specificity presented by different scientific areas in terms of productivity indicators. a.2) The category of technological production includes verifiable activities related to technological transfer or production of equipment, prototypes or application software, even if produced in an academic environment. The jury may also consider other forms of technological production presented by the candidates if appropriate under CEOT's project framework. For the global assessment of the candidates' technological production, the jury will take into account the following factors: • Complexity of the technological developments presented and the state of the art associated with them. • Relevance and preponderance of the candidate's participation in the technological activities. • Relevance of the candidate's work to the areas A) to F) listed in 13a). b) The applied research or practice-based activities developed in the last five years and considered of highest impact by the applicant (8 points) The objective of this criterion is to evaluate the candidate's scientific and technological experience and career path, complementing the more quantitative analysis of criterion a), based on productivity items. This point also includes the candidate's training (undergraduate, master's and doctorate), regardless of whether they occurred more than five years ago. For the global assessment of this criterion, the jury will take into account the following factors: • Scientific quality and relevance of undergraduate (if applicable), master's (if applicable) and doctoral theses. • Scientific quality and relevance of the work performed in the context of scholarships and/or contracts in the past five years. • Projects in which the candidate has participated as a member of the team or - what will be most valued - as a principal investigator. • Expertise and skills acquired by the candidate and that may prove to be of added value to CEOT, such as the mastery of experimental techniques, computational methods or theoretical methods relevant to the practical implementation of the strategic project of the center. • Relevance of the candidate's work to the areas A) to F) listed in 13a). c) The extension and knowledge dissemination activities in the last five years, specifically in the context of promotion of scientific culture and practice considered more relevant by the applicant (2 points) This criterion is intended to evaluate the candidates' involvement and experience in disseminating science to society. For the global assessment of this point, the jury will take into account the following activities: • Scientific dissemination lectures • Articles of scientific dissemination. • Participation in radio or television programs. • Participation in workshops aimed at the general public. • Others (to be analyzed according to the candidate's description). • Relevance of the candidate's work to the areas A) to F) listed in 13a). d) Science, technology and innovation management activities, or experience in the observation and monitoring of the scientific and technological system, or the higher education system in Portugal or abroad (1 point) This criterion is intended to evaluate the candidates' experience in project management, and on the scientific system policies, which will be an important for the day-to-day management of the center's resources and preparation of project proposals in the future. For the global assessment of this point, the jury will consider the following activities: • Involvement of the candidate in the management of science, technology or innovation programs. • Participation in missions/commissions for observation and monitoring of the scientific and technological system or higher education, in Portugal or abroad. • Relevance of the candidate's work to the areas A) to F) listed in 13a).

18. Candidates who have scored below 9.5 points are excluded from the tender procedure.

19. During a second stage of the evaluation process, the panel may, if it deems appropriate, interview the three top-scoring/short-listed applicants for the sole purpose of clarifying aspects related to their research findings in order to better assess how suited they are for the job.

20. The final scoring for each applicant will be presented on a scale of 0-20, calculated to hundredths of a point. Final scoring (if there are interviews): the final scoring and consequent rank order of the applicants will be calculated using the formula below and will be expressed on a scale of 0-20: $FS = ASCP (90\%) + 1 (10\%)$ Where: FS = Final Score; ASCP =

Assessment of Scientific and Curricular Background; I = Interview. If there is a tie, the President of the panel shall have the casting vote. 21. The panel decide by means of a substantiated roll-call vote based on the selection criteria adopted and advertised; abstentions are not permitted. 22. Minutes will be drawn up of each meeting of the panel, with a summary of each meeting's proceedings and the vote cast by each member along with their justification. The applicants will be given access to the minutes whenever they request them. 23. Once the selection criteria have been applied, the panel will draw up an ordered list of the approved applicants and their respective scores. 24. The panel's final decision will be ratified by the Rector of the Universidade do Algarve, who also has the final say on the recruitment. 25. Applications must be formalised by means of a request form provided for the purpose at the Universidade do Algarve's website (<https://www.ualg.pt/procedimentos-concursais>), addressed to the Rector of the Universidade do Algarve and delivered: a) by email to the address srhconcurso@ualg.pt until 11.59pm of the last day of the tender application period; or b) by registered post with proof of receipt to the Reitor da Universidade do Algarve, Campus da Penha, 8005-139 Faro, postmarked on or before the tender closing date; or c) in person to the University's General Office ("Expediente Geral") on the lower floor of the Administration Building at the Penha Campus in Faro from 9.00 am-12.30 pm or from 2.00 pm - 5.30 pm until the last day of the tender application period. 26. Applications must contain the following: the identification of this job announcement; the applicant's full name, his/her parents' names, the number of their identity document (citizen's card, identity card or equivalent document for non-Portuguese applicants, or passport; the expiry date of the document must be stated); taxpayer number; date and place of birth; marital status; occupation; subject field of their doctoral degree and the date of conclusion; address; telephone number; and e-mail address. Applicants must also give their consent to any communication or notifications within the scope of this tender sent by e-mail. 27. Applications must be accompanied by documentary evidence of the conditions provided for in points 11 and 13 for admission to the tender, i.e. a) A copy of the applicant's doctoral certificate or diploma (one printed copy and one copy in electronic format, if delivery by registered post or in person); b) A cover letter highlighting the most significant scientific activities and contributions over the last five years (maximum of 3,000 characters including spaces) pursuant to article 5(2) of the RJEC; a list and copies of three to five published articles considered by the applicant to be representative or most impactful in the subject field (in English) (one printed copy and one copy in electronic format, if delivery by registered post or in person); c) A detailed curriculum vitae containing information about the applicant's scientific and curricular background, organised according to the established assessment criteria (in English) (one printed copy and one copy in electronic format, if delivery by registered post or in person); d) Other relevant documents for the assessment of the applicant's qualifications in the appropriate subject field (if applicable, a copy in electronic format); e) Other documents which the applicant considers relevant for the appreciation of their application (if applicable, a copy in electronic format); 28. Applications submitted after the closing date stipulated in point 3, as well as those which fail to adhere to all the formalities or do not contain the required evidence of eligibility, will be rejected. 29. False statements made by the applicant will be punished pursuant to the applicable legislation. Should there be any doubts about the veracity of any statement, the panel may require the applicant to submit further documentary evidence should it deems necessary. 30. Details of meeting/interview dates and times for the purposes of selection will be sent by e-mail with acknowledgement of receipt. 31. The list of admitted and rejected applicants, as well as the final ranking, will be affixed at the Universidade do Algarve's Human Resources Department and published on the University's website, applicants will also be sent this information by e-mail with acknowledgement of receipt. 32. Pursuant to article 121 of the CPA, applicants will be notified of the exclusion decision and of the final classification list draft and will be granted a period of 10 working days to proceed with a preliminary hearing, by which they can, if they so wish, say whatever they deem appropriate. 33. This tender is intended solely for the purpose of filling the indicated positions. It may be cancelled up until the final ordered list of applicants is ratified, and it will expire once the positions in question have been filled. 34. The Universidade do Algarve actively promotes a policy of non-discrimination and equal access. Consequently, no applicant may be privileged, benefited, impaired or denied any right or exempted from any duty because of, specifically, their ancestry, age, gender, sexual orientation, marital status, family circumstances, financial circumstances, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, country of origin, native language, religion, political or ideological beliefs or union membership. 35. The panel approved this announcement at the meeting held on November 17th, 2020. 36. Pursuant to Decree-Law 29/2001 of 3 February, disabled applicants take precedence in the event of a tie, the said precedence prevailing over any other legal precedence. On their application form, disabled applicants must state, upon their honour, the degree of their incapacity, the type of disability and the means of communication or expression to be used in the selection process. 37. The Universidade do Algarve states, for the purposes of no. 5 of article 6 of the RJEC, that it does not assume any commitment to consider that it is in its strategic interest to open tender procedures for a scientific research career job or for a teaching career job in higher education. January 15th, 2021- The Rector, Paulo Águas.

Vacant posts: 1

Type of contract: Temporary

Job country: Portugal

Job city: Faro - Algarve

Job company/institute: University of Algarve

Application deadline: 10 Fevereiro 2021

(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização
2. Organization contact data

Organization/institute: Universidade do Algarve

Address:
Campus da Penha
Faro - 8005-139
Portugal

Email: reitor@ualg.pt

Website: *not available*

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3. Habilitações académicas 3. Required education Level

Degree:	Doctoral degree in the scientific area of Physics, Engineering Physics or related areas and to holders of a scientific and professional curriculum with a profile appropriate for the activity to be developed.
Degree field:	Physics

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4. Línguas exigidas 4. Required languages

Language:	English
Priority:	High
Reading:	Excelent
Writing:	Excelent
Comprehension:	Excelent
Conversation:	Excelent

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5. Experiência exigida em investigação 5. Required research experience

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