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Home page

### For Organisations

**Universidade de Évora - UE**

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▶ [View all research opportunities](#)

▶ [Post research opportunities](#)

#### Overview

1. Job/Fellowship Description
2. Organization contact data
3. Required education Level
4. Required languages
5. Required research experience

[Job/Fellowship Status](#)

[Information for FCT](#)

▶ [Find the ideal candidate](#)

▶ [Edit organisation data](#)

▶ [Log out](#)

### Post Research Opportunities

Unique identifier: 41ef006a-249c-4678-a8a0-84d3e08cb59d

#### English

#### 1. Descrição do cargo/posição/bolsa 1. Job description

#### Job:

Investigator

**Job/Fellowship Reference:** Investigator - Área Química/Biogeoquímica/Recursos Naturais e Ambiente

**Main research field:** Not available

**Sub research field:**

#### Job summary:

1. By decision of the Rector of the University of Évora, in January 21th 2020, it was deliberated to open an international selection tender for one vacancy of investigator for the exercise of scientific research activities in the scientific area of Chemistry/Biogeochemistry/Natural resources and Environment in a fixed-term public service work contract regime with the duration of three years for the performance of researcher functions within the project "EROFIRE - Post-fire erosion risk assessment using molecular markers", reference: PCIF/RPG/0079/2018, whose main objective is the development of predictive post-fire soil erosion models using molecular markers. The researcher to be contracted should have hands-on experience in stated-of-the-art analytical techniques, such as analytical pyrolysis (Py-GC/MS), ultra-high resolution mass spectrometry (FT-ICR/MS), 2D gas chromatography (GCxGC), stable isotope analysis (IRMS), conventional compound-specific isotope analysis (CSIA) and pyrolysis -CSIA (Py-CSIA). In addition, the researcher to hire should have extensive knowledge in the use of chemometric analysis, as well as computational modelling. Previous experience in the use of other advanced analytical techniques, such as solid-state <sup>13</sup>C/<sup>15</sup>N NMR, FTIR and ICP/MS will be valued. On the other hand, the researcher will take part in the development of soil erosion risk model. In addition, he/she will participate in dissemination activities of the results obtained within the project, in supervising PhD, master and bachelor students, and previous experience in this type of activities will be appreciated. The applicant may be in charge of teaching hours up to a maximum of 4 hours a week, in the units that will be distributed.

#### Job description:

ANNOUNCEMENT FOR THE OPENING OF AN INTERNATIONAL SELECTION TENDER PROCEDURE FOR INVESTIGATOR HIRING PURSUANT DECREE-LAW NO. 57/2016 OF 29 AUGUST Aviso extrato nº 3425/2020 (2ª série), de 28 de fevereiro 1. By decision of the Rector of the University of Évora, in January 21th 2020, it was deliberated to open an international selection tender for one vacancy of investigator for the exercise of scientific research activities in the scientific area of Chemistry/Biogeochemistry/Natural resources and Environment in a fixed-term public service work contract regime with the duration of three years for the performance of researcher functions within the project "EROFIRE - Post-fire erosion risk assessment using molecular markers", reference: PCIF/RPG/0079/2018, whose main objective is the development of predictive post-fire soil erosion models using molecular markers. The researcher to be contracted should have hands-on experience in stated-of-the-art analytical techniques, such as analytical pyrolysis (Py-GC/MS), ultra-high resolution mass spectrometry (FT-ICR/MS), 2D gas chromatography (GCxGC), stable isotope analysis (IRMS), conventional compound-specific isotope analysis (CSIA) and pyrolysis -CSIA (Py-CSIA). In addition, the researcher to hire should have extensive knowledge in the use of chemometric analysis, as well as computational modelling. Previous experience in the use of other advanced analytical techniques, such as solid-state <sup>13</sup>C/<sup>15</sup>N NMR, FTIR and ICP/MS will be valued. On the other hand, the researcher will take part in the development of soil erosion risk model. In addition, he/she will participate in dissemination activities of the results obtained within the project, in supervising PhD, master and bachelor students, and previous experience in this type of activities will be appreciated. The applicant may be in charge of teaching hours up to a maximum of 4 hours a week, in the units that will be distributed. 2. Applicable Legislation: Decree-Law no 57/2016. 29th August, amended by Law No 57/2017 of 19th July, which approved the doctorate hiring regime aimed at stimulating scientific and technological employment for all knowledge areas (RJEC) and General Public Service Labour Law (LTFP), approved in annex to Law no 35/2014 of 20th June, under its current wording. 3. Pursuant to article 16 of Decree-Law no 57/2016 of 29th August, this tender procedure shall be exempt from the authorization given by the Government members in charge for Finances and Public Administration, namely the authorization mentioned on no 3 of article no 7 of LTFP; and from obtaining a prior favourable opinion from said Government members, mentioned on no 5 of article no 30 of LTFP, and the recruitment process for workers in a requalification position, mentioned on article no 265 of LTFP. 4. Pursuant to article no 13 of RJEC, the tender

selection panel shall be formed by: President: Doctor Mário Carvalho, Professor with Habilitation of the Department of Crop Science, University of Évora. Vowels: Doctor Cristina Maria Barrocas Dias, Assistant Professor with Habilitation of the Department of Chemistry, University of Évora; Doctor Marco Diogo Richter Gomes da Silva, Assistant Professor with Habilitation of the Department of Chemistry, Faculty of Science and Technology, New University of Lisbon. Doctor António José Bento Gonçalves, Assistant Professor with Habilitation of the Geography Department, University of Minho. 5. Workplace shall be at the University of Évora – in Évora – MED and Laboratory Hercules. 6. Monthly remuneration to be paid is the remuneration corresponding to level 33 of the Single Salary Table, approved by Order no. 1553-C/2008 of December 31st, i.e. 2128,34 Euros. 7. Can apply to the tender any national, foreign and stateless candidate(s) who hold a doctorate degree in Chemistry/Biogeochemistry/Natural resources and Environment and have a scientific and professional curriculum indicating a suitable profile to the activities to be carried out, preferably with: - A minimum of 2 years of experience as post-doctoral researcher in the referred thematic; - Academic formation in Chemistry/Biogeochemistry/Natural resources and Environment; - Expertise in the molecular analysis of complex matrices (e.g. soil, sediments, speleothems) by advanced chromatographic and mass spectrometry techniques; - Expertise in chemometric analysis (big data treatment, data mining and graphical tools “3D van Krevelen and Kendrick diagrams”); - Expertise in the development of the homemade analytical and graphic-statistical software (enhance FTIR and NMR spectra resolution); - Hands-on experience in the development, application and maintenance cutting-edge analytical approaches, such as Py-GC/MS, FT-ICR/MS, GCxGC, CSIA and Py-CSIA; - Previous experience in the utilisation of solid-state <sup>13</sup>C-<sup>15</sup>N NMR, FTIR and ICP/MS; - Demonstrated experience in the publication of scientific papers (preferentially > 20) in high impact factor journals (Q1), within the topics of wildfire, soil organic matter, soil water repellency, biomarkers, chemometric analysis and molecular characterization of complex matrices (sediments, speleothems, etc.). - Experience in preparing proposals of research projects in competitive calls; - Demonstrable research independence; - High experience in working within multidisciplinary teams; - Strong experience in communication and dissemination of the results in scientific meetings; - Experience in communication of science to society; - Experience in the organisation of scientific meetings, workshops, etc. - A proven high proficiency in spoken and written Portuguese and English. The knowledge of other languages will be considered. If the PhD has been awarded by a foreign higher education institution, the candidate(s) is (are) admitted to the procedure, according to paragraph e) of paragraph 2 of article 4 of Decree-Law no 60/2018, of 3rd August and the registration/recognition of the degree in Portugal to be effected after the end of the tender, under the terms provided for in Decree-Law no 66/2018, of 16th August, and is only necessary in the act of contracting. 8. General tender admission requirements are those set by article 17 of LTFP and special requirements set by the previous section. 9. Pursuant to article 5 of RJEC, selection is to be made based on candidate scientific and curricular career evaluation. 10. Scientific and curricular career evaluation focuses on relevance, quality and up-to-dateness: a. of scientific, technological, cultural or artistic production in the last five years, deemed most relevant by the candidate; b. of research activities, applied or based on practical work, developed in the last five years, deemed most impactful by the candidate; c. of knowledge extension and dissemination activities developed in the last five years, namely under the scope of the promotion of culture and scientific practices, deemed most relevant by the candidate; d. of the activities of management of science, technology and innovation programmes, or the experience in observing and monitoring the scientific and technological, or higher education, system in Portugal. 11. The five-year period mentioned above can be extended by the panel, if requested by the candidate, whenever the suspension of scientific activities is reasoned by socially protected ground like paternity leave, long-term serious illness, and other legal situations of unavailability to work. 12. The evaluation criteria are: a. Scientific performance in the last five years, b. Research activities developed in the last five years, c. Activities of extension and dissemination of knowledge developed in the last five years, d. Other relevant activities. In the application of the mentioned criteria, the following parameters and weighting factors shall be evaluated: Criterion a) with a weighting factor of 70%, which comprises a1) Publications in indexed scientific journals, considering the quality of publication and their impact and considering the requirement of the area of specialization of the announcement; a2) oral communications at international scientific meetings and conferences. Criterion b) with a weighting factor 20%, which comprises b1) Research Experience in relation with the requirements of the announcement, b2) laboratory services related with the specialization of the announcement; Criterion c) with a weighting factor of 5%, which comprises c1) Knowledge Transfer and Technology Experience c2) organization and participation at conferences and courses. Criterion d) other relevant activities, including revision of scientific papers (considering the impact of the journal), with 5% weighting factor. In all cases it will be given relevance to indicators and activities that fit in the area of Chemistry/Biogeochemistry/Natural resources and Environment, especially in the themes referred to in point 1. 13. Candidate final classification system shall be given based on a scale of 0 to 100. 14. The panel shall deliberate by means of roll-call vote justified under adopted and disclosed selection criteria, with no abstentions allowed. 15. Minutes of panel meetings shall be executed and shall include a summary of all occurrences of said meeting, as well as of all votes cast by the members and respective reasoning, and shall be provided to candidates whenever required. 16. After selection criteria application, the panel shall prepare a sorted list of approved candidates and respective classification. 17. Panel’s final decision shall be validated by the leader of the institution, who is also in charge of deciding about the hiring. 18. Application formalization: a. Applications are formalised upon application file, made available on the electronic page of Administrative Services of the University <https://www.sadm.uevora.pt>, sent to the President of the Jury, including announcement identification (Ref: MED-02), full name, parents’ names, ID card, or Citizen Card number and date, or civil identification number, taxpayer ID number, date and place of birth, marital status, occupation, residence and contact address, including email address and telephone, b. Applications shall include all supported documents encompassed by section 7 and 8 for tender admission, namely: i. Certificate or diploma copy; ii. Two scientific papers considered relevant by the candidate; iii. Curriculum vitae, detailed and structured pursuant to sections 10 and 12; iv. Motivation letter; v. Other documentation; c. Candidates shall submit their application files and supporting documentation, preferably in a digital form, in PDF format, via email [drhsc@uevora.pt](mailto:drhsc@uevora.pt), in person at Universidade de Évora – Divisão de Recursos Humanos (DRH), Serviços Administrativos, Largo da Sr<sup>a</sup> da Natividade, Apartado 94, 7002-554 Évora, Portugal, during working hours, or by mail to the address. When submitted by mail, applications must be sent by registered mail with acknowledgement of receipt sent until the last day of application deadline, which is hereby set as the period of 30 working days after the publication of the Announcement. 19. All candidates who formalise their application in an improper way or fail to prove the requirements imposed by this tender are excluded from

admission. In case of doubt, the panel is entitled to request any candidate to present further documentation supporting their statements. 20. False statements provided by the candidates shall be punished by law. 21. Both admitted and excluded candidate list and final classification list will be affixed at the website of <https://www.sadm.uevora.pt> and all candidates shall be notified by email with delivery receipt. 22. Preliminary Hearing and Final Decision Deadline: Pursuant to article 121 of the Administrative Procedure Code, after notified, all candidates have 10 working days to respond. Panel's final decisions are pronounced within a period of 90 days, from application deadline. 23. This tender is exclusively destined to fill this specific vacancy and can be terminated at any time until approval of final candidate list, expiring with the respective occupation of said vacancy. 24. Non-discrimination and equal access policy: The University of Évora, actively promotes a non-discrimination and equal access policy, wherefore no candidate can be privileged, benefited, impaired or deprived of any rights whatsoever, or be exempt of any duties based on their ancestry, age, sex, sexual preference, marital status, family and economic conditions, instruction, origin or social conditions, genetic heritage, reduced work capacity, disability, chronic illness, nationality, ethnic origin or race, origin territory, language, religion, political or ideological convictions and union membership. 25. Pursuant to Decree-Law no 29/2001 of 3rd February, disabled candidates shall be preferred in a situation of equal classification, and said preference supersedes any legal preferences. Candidates must declare, on their honour, their respective disability degree, type of disability and communication/expression means to be used during selection period on their application form, under the regulations above. January 24th, 2020 – The Administrator of the University of Évora, Maria Cesaltina Frade.

**Vacant posts:** 1

**Type of contract:** Information not available

**Job country:** Portugal

**Job city:** Évora

**Job company/institute:** Universidade de Évora

**Application deadline:** 13 Abril 2020

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

[↑ Top of page](#)

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

**Organization/institute:** Universidade de Évora - UE

**Address:**  
Largo dos Colegiais 2  
Évora - 7004-516 Évora  
Portugal

**Email:** [drhsc@uevora.pt](mailto:drhsc@uevora.pt)

**Website:** <http://www.uevora.pt/>

[↑ Top of page](#)

## 3. Habilitações académicas 3. Required education Level

**Empty**

[↑ Top of page](#)

## 4. Línguas exigidas 4. Required languages

**Empty**

[↑ Top of page](#)

## 5. Experiência exigida em investigação 5. Required research experience

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[↑ Top of page](#)