

# 2580

## Public Notice - International Selection Procedure

### PhD Scientific Researcher Recruitment

FCiências.ID/2018/DL57/CEAUL/1

**FCiências.ID - Associação para a Investigação e Desenvolvimento de Ciências**, through its Chairman of the Board of Directors, hereby announces the opening of an international call for the recruitment of a scientific researcher with a PhD degree, within the scope of the research project **FillGapsInMaps, Data Fusion and Calibration Methods for Spatial Risk Analysis**, ref PTDC/MAT-STA/28649/2017, in the form of an employment contract with an uncertain term, according to the Portuguese Labour Code and Decree-Law No. 57/2016, of August 29th, as amended by Law No. 57/2017, of July 19th, and complementary legislation.

#### I - Admission Requirements

Portuguese nationals, foreign and stateless persons may submit applications to this selection procedure, provided they hold a doctoral degree<sup>1</sup> in Statistics or akin areas, have specialised skills and/or expertise in the field of space-time Bayesian computing, and fully comply with the following requirements:

- a) The PhD must have been granted not more than 10 years ago.
- b) Demonstrated scientific and/or professional experience in the area of Spatio-Temporal Modelling and Bayesian Inference (or associated fields); experience in the field of Statistics of Extremes would be desirable but it is not mandatory.
- c) The candidate must also have experience in Computational Statistics and Data Analysis.
- d) The candidate must also have experience in communicating statistical findings orally (in English), and on documenting (in English) the main outcomes of a research task.
- e) The candidate must also have experience in producing independent research and on collaborating with research teams.
- f) The candidate must be available to make short research stays at the University of Edinburgh, UK.
- g) The jury will resort to the level of production of scientific research in Computational Statistics as a tiebreaker.
- h) The three best ranked candidates will be asked a common set of questions over Skype or in situ—depending on the availability of each candidate.

<sup>1</sup> Applicants with doctoral degrees obtained in foreign countries need, in accordance with Decree-Law No. 341/2007, of October 12<sup>th</sup>, as regulated by Government Order No. 227/2017, of July 25<sup>th</sup>, to be recognized as holders of a doctoral degree, with all inherent entitlements. Applicants to whom, under the terms of Decree-Law No. 283/83, of June 21<sup>th</sup>, equivalence or recognition of the degree of Doctor has been granted are valid. Equivalence, recognition and registration of the doctoral degree should be obtained by the application deadline.

#### II. Applicable Law

1. Decree-Law No. 57/2016, of August 29<sup>th</sup>, in the wording conferred on it by Law No. 57/2017, of July 19<sup>th</sup> (RJEC), taking also into account the provisions of Regulatory Decree No. 11-A/2017, of December 29<sup>th</sup>;
2. Portuguese Labour Code, as approved by Law No. 7/2009, of February 12<sup>th</sup>, in its current version (CT);
3. Administrative Procedure Code, as published in Decree-Law No. 4/2015, of January 7<sup>th</sup>, in its current version (CPA).

#### III. Work Plan

The objectives of the work plan are to propose methods for calibrating extreme values of simulated data based on observed data. This problem is extremely important due to its applicability to several areas such as energy and environment. In an environmental framework, extreme values of certain variables, such as wind speeds and precipitation may cause severe damages in property, namely in electrical networks, roads, and agricultural infrastructures. Usually the observed data are scarce and thus simulation is the usual alternative. However, although the simulated and observed data are similar in the bulk of the distribution they are often very different in terms of extreme values. Simulated data have typically lighter right tails than those of observed data. Risk maps, based on simulated data, tend to underestimate the probabilities of damage. Methods for data fusion and calibration provide information which is more reliable from a spatial point of view and will produce more accurate risk maps.

The work plan to be executed by the selected candidate includes sections of Tasks 1–4 of the research project Data Fusion and Calibration Methods for Spatial Risk Analysis, ref PTDC/MAT-STA/28649/2017. The work plan to be executed by the selected candidate should yield at least two publications in top tier scientific journals per year.

#### **IV. Composition of the Jury**

In accordance to article 13 of the RJEC, the members of the jury are:

- President – Prof. Lisete Maria Ribeiro de Sousa, Universidade de Lisboa.
- 1st Evaluator – Prof. Miguel de Carvalho, University of Edinburgh.
- 2nd Evaluator – Prof. Patrícia de Zea Bermudez, Universidade de Lisboa.
- 1st Alternate Evaluator – Prof. Feridun Turkman, Universidade de Lisboa.
- 2nd Alternate Evaluator – Prof. Antónia Amaral Turkman, Universidade de Lisboa.

#### **V. Place of work**

Work will mainly be developed at the facilities of Research Center CEAUL (Centro de Estatística e Aplicações), in the Departamento de Estatística e Investigação Operacional, Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal. Some work may be developed over research stays at the Centre for Statistics, University of Edinburgh, UK.

#### **VI. Contract Duration**

The full-time employment contract with an uncertain term is expected to start on 1 January 2018, and will last until the Work Plan referred to in section III is completed. It will have an expected duration of 31 months, including an initial experimental trial period of 30 days.

#### **VII. Monthly Allowance**

The gross monthly salary entitle is stipulated in clause 1 of article 5 of the Regulatory Decree No. 11-A/2017, of December 29th, corresponding to level 33 of the Consolidated Table of Allowances, as approved by Government Order No. 1553-C/2008, of December 31st, being 2,128.34 Euros, plus holiday and Christmas allowances, as well as food allowance, in value and conditions for workers with a legal relationship of employment under the Labour Code.

#### **VIII. Evaluation of applications**

1. Failure to comply with the Admission Requirements implies the non-admission of candidates in absolute merit.
2. According to article 5 of the RJEC, the selection of the candidates approved in absolute merit will rely on the evaluation of their scientific and curricular achievements in the last five years, taking into consideration the quality and relevance of the scientific production, and the professional activity indicated as more relevant by the candidate, for the research project Data Fusion and Calibration Methods for Spatial Risk Analysis.
3. The final classification of candidates is given on a scale of 0 to 100%.
4. Evaluation of the relative merit of candidates, will rely on the following criteria:



- a) Participation in relevant scientific projects in the area of Statistics - 20%;
  - b) Scientific publications in the area of Statistics - 40%;
  - c) Pedagogical and outreaching activities, in particular in the context of promoting scientific practices, organization of courses, seminars and conferences, in the area of Statistics - 5%;
  - d) Assessment of the references provided by the candidate - 25%;
  - e) Interview, if deemed necessary by the jury - 10%.
5. The jury will interview the three best ranked [in criteria a) to d) of paragraph 4)] candidates, for clarifications and improved explanations of curricular elements
  6. The jury shall deliberate by means of a roll-call vote based on the evaluation criteria.
  7. Minutes of the jury meetings are drawn up, summarizing all relevant elements considered by jury members, as well as their individual votes and justifications.
  8. After completion of the evaluation process, the jury will draw up a ranking of successful candidates with their classifications.
  9. Hiring will be decided by the Chairman of the Board of Directors of FCIências.ID, based on the final jury recommendation.
  10. The evaluation results will be published on the website of the FCIências.ID ("Concursos" tab). The candidates will be individually notified of the evaluation results by e-mail sent to the address indicated in the "Personal Data" section of the submitted form.
  11. With the notification referred to in paragraph 10, the hearing phase of interested parties referred to in Article 121 *et seq.* of the CPA will begin, and last for ten working days.
  12. The possible pronouncement of the candidate in a prior hearing must be addressed to the President of the jury and submitted in writing to [fciencias.id@fciencias-id.pt](mailto:fciencias.id@fciencias-id.pt). The President of the jury will convene a jury's meeting to produce the final decision, within thirty working days.
  13. Within five working days of the final jury decision, the Board of Directors Chairman of FCIências.ID will approve it and the candidates will be notified.
  14. The communication between FCIências.ID and the candidates will be electronic and will comply with the following rules:
    - a) At the time of electronic submission of any document - namely in the case of paragraph no 11 - the candidates must generate proof of "sent message".
    - b) FCIências.ID will send an email message acknowledging documents received to the email address used by the candidates, within two working days.
    - c) In case of absence of a confirmation receipt by FCIências.ID – showing the possibility of technical problems that should neither be the responsibility of the candidate nor FCIências.ID - the candidates should contact FCIências.ID, with the proof referred to in point (a), to ensure delivery and proper receipt of the documents concerned.

#### **IX. Compliance with public policies**

1. FCIências.ID actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, disadvantaged or deprived of any right or exempt from any duty due to, inter alia, ancestry, age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership.
2. Under the terms of D.L. No. 29/2001, of February 3, a disabled candidate has a preference in equal classification, which prevails over any other legal preference. Candidates must declare their respective degree of disability, the type of disability and the means of communication /

expression to be used in the selection process, under the terms of the above-mentioned diploma.

#### **X. Submission of Applications**

1. The present call will be open from 15/10/2018 to 30/11/2018.
2. The application and all the required documents may be submitted in Portuguese or English.
3. Applications will be submitted online, through the electronic platform of FCIências.ID (<http://concursos.fciencias-id.pt>).
4. On the electronic platform, applicants will complete a *mandatory* section on Personal Data [name, address, date of birth, contact email, nationality and scientific identifiers] and upload files with the documents listed below:
  - i. Detailed curriculum vitae - *mandatory*;
  - ii. A motivation letter clearly demonstrating that the candidate has an adequate profile for the position and fully complies with the Admission Requirements - *mandatory*;
  - iii. Up to five publications relevant for the objectives of the Work Plan - *optional*;
  - iv. Digital copies of documents proving formal academic degrees (PhD) and/or other scientific and professional qualifications - original documents must be provided in case of actual recruitment- *mandatory*;
  - v. Other documents that candidates consider relevant for the assessment of their scientific merit, or to declare the personal situation in the cases covered in section IX-2 of this Notice - *optional*.
5. By decision of the Chairman of the Board of Directors of FCIências.ID, candidates who do not submit the documents identified in paragraph 4 will not be admitted to the call. In case of doubts, the Chairman may also invite candidates to substantiate specific data or statements with official supporting documents, before accepting the candidates' submission.

This Public Note was approved by the jury on 25/09/2018.