

CALL FOR RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

One Post-doctoral Fellowship

A call for one Post-doctoral Fellowship is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, for the project: **IMDROFLOOD: Improving Drought and Flood Early Warning, Forecasting and Mitigation using real-time hydroclimatic indicators - JPND- WaterJPI/0004/2014**, financed with national funds by FCT/MCTES (PIDDAC) in the framework of the Joint Programming Initiative Water challenges for a changing world (Water JPI), under the following conditions:

1. **Scientific Area:** Earth and Atmospheric Sciences.
2. **Requirements for admission:** Candidates must hold a suitable **Ph.D.** It is considered essential good programming skills in languages such as **MATLAB (or IDL or Python) and/or Fortran**. Candidates should also be proficient in **English**.
3. **Factors preferred:** Ph.D. in Atmospheric Sciences, with solid knowledge in Climate Dynamics and impacts of large scale circulation in climate at the regional scale. Preference will be given to candidates that demonstrate a background handling extreme precipitation events (e.g. Droughts and/or floods). It is an advantage a good level of familiarization handling large datasets such as Reanalysis datasets (e.g. ERA-Interim, NCEP/NCAR), as well as, probabilistic short and medium-term operative meteorological predictions. The jury may decide to exclude candidates without any expertise in at least one of these areas.
4. **Working plan:** The main purpose of this fellowship is to assist the team achieving the deliverables defined in the IMDROFLOOD project. The candidate will work extensively with probabilistic meteorological forecasts from the ECMWF in order to develop and validate probabilistic short and medium-term operative meteorological forecast, focused on intense Cyclone events and Atmospheric Rivers affecting Europe often associated with the most extreme precipitation events. In addition, the candidate will assess the usefulness of different drought indices when applied to sectorial impacts at a river basin scale. Finally the candidate will interact with stakeholders and end-users for building impact prediction tools for decision making.
5. **Legislation framework:** A fellowship contract will be celebrated according to the regulations defined by FCT "Regulations for Advanced Training and Qualification of Human Resources", in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July; And also by the FCT, I.P. Fellowships Regulation, in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>) and FFCUL's Fellowship Regulation, as approved on 22nd December 2014
6. **Place of work:** The work plan will be conducted at the Instituto Dom Luiz, Faculty of Sciences, University of Lisbon, under the scientific supervision of Dr. Ricardo M. Trigo.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on January 2017. The fellowship contract may be renewed to more 18 months, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
8. **Monthly allowance:** The fellowship amounts to € 1.495,00, according to table values of the fellowships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).
The fellowship holder will have a personal accident insurance and, if not covered by any social protection scheme can ensure the right to social security through adherence to the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social.
The fellowship will be paid monthly by bank transfer.
9. **Selection method:** Candidate's curriculum vitae with emphasis on i) prior experience with similar datasets and methods, ii) motivation letter and iii) recommendation letters. Good programming skills constitute an asset as well as the number and quality of peer reviewed publications. The weights are respectively 5, 3 and 2 to apply to marks from 0 to 20. If necessary a telephone/video interview may be required.
10. **Selection Committee:** Doctor Ricardo M. Trigo C (Chairman of the Jury), Doctor Celia Gouveia and Doctor Alexandre M. Ramos (Member of the Jury), Doctor Ana Russo and Doctor Carlos da Camara (Alternative members of the Jury).

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11. **Publication/notification of results:** The final evaluation results will be notified by email, through the ordered list according to the final grade obtained.
12. **Deadlines:** Applications should be submitted between 25-11-2016 and 30-12-2016.
13. **Application:** Applications should be preferentially sent via e-mail to rmtrigo@fc.ul.pt. All applications must include i) *certificates of academic degree*, ii) Motivation letter, iii) Curriculum vitae including the following elements: Contacts; Prior research and work experience; Academic education including a list of subjects concluded and respective classification; List of publications, and iv) Letters of recommendation.