



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

(6 Fellowships Pos-Doc)

6 post-doc researchers are open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, for the Instituto Dom Luiz, GEO/50019, with financial support from the funding framework in force (the financial support of FCT / MEC through national funds and when applicable co-financed by the FEDER under the PT2020, under the following conditions:

1. **Scientific Area:** Geosciences and Renewable Energy
2. **Requirements for admission:** PhD in a subarea of geosciences (Meteorology, Oceanography, Solid Earth Geophysics, Geodesy, Geology, Geochemistry) and Renewable Energy.
3. **Factors preferred:** Candidates are expected to have a record of peer-reviewed publications in their areas of research, a will to work in a multidisciplinary environment with a close link with a large community of Earth and Environmental Science students, with strong international links.
4. **Work plan:** Each of the Post-docs will be integrated in one of the IDL Research groups, around the following ongoing activities, with a <10000 characters personal working plan written by the candidate, in the form of a scientific statement:
 - (1) Atmosphere-Ocean coupling at the western Iberian Margin. (Meteorology/Oceanography)
 - (2) Global Climate Prediction in CMIP6 (Meteorology/Oceanography)
 - (3) Upper ocean heat budget and climate feedbacks (Meteorology/Oceanography)
 - (4) Global climate changes and time-scale calibration of the Lusitanian and Algarve Mesozoic sedimentary record (Geology/Geophysics)
 - (5) Modelling drought and heatwaves synergy in Iberian Peninsula (Climatology)
 - (6) 2D joint inversion of TEM and MT data for mining and hydrogeology. (Geophysics)
 - (7) Tomographic joint inversion of multi-dataset contributions to the understanding of the geodynamics of Atlantic volcanic islands (Azores, Cape Verde and Madeira+Canaries) (Geophysics/Geochemistry)
 - (8) Low temperature alteration processes of off-axis basalts from the Azores – Great Meteor seamounts region (North Atlantic): miner-ological assessment and geochemical implications. (Geology/Geochemistry)
 - (9) 2D and 3D study of geochemical anomalies with multifractal and stochastic models. (Geology/Geochemistry)
 - (10) Seismological strategies for earthquake risk mitigation (Geophysics)
 - (11) Searching for the origin and recurrence of Holocene-Late Pleistocene tsunami sedimentological records off south Portugal (Geology/Geophysics)
 - (12) Probing the lithosphere and asthenosphere with GNSS at tidal frequencies (Geodesy)
 - (13) Photovoltaic solar cell technologies: materials, processes, devices, characterization (Energy)
 - (14) Long term future energy systems with a strong share of renewables (Energy)
 - (15) Aquifers response to climate changes and contaminant transport (Geology)
 - (16) The role of organic matter in paleoenvironmental reconstructions (Geology)
 - (17) Coupling numerical modelling with geomorphic response of highly dynamic coastal systems (Geology)
 - (18) Fire-Land-Atmosphere interactions in the Cerrado savanna and the Amazon rainforest of Brazil (Climatology)
 - (19) Modelling of Extreme Tsunami Events and its Impacts in Harbors (Geophysics/Oceanography)

Some details of the proposed projects are identified in the webpage of IDL (www.idl.ul.pt), although we expect a personal research statement that clearly corresponds to the profile of the applicant, but which is relevant in the context of the proposed projects.



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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 will be developed at IDL, Faculdade de Ciências da Universidade de Lisboa, under the scientific guidance of the corresponding Group Coordinator.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on October 2015. The fellowship contract may be renewed to more 21 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 € 1495 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:** Candidates will be assessed by the quality of their CV (50%) and on the evaluation of an interview (50%) – *please notice if EU non-residents are predicted to apply to the fellowship, an interview (via skype is acceptable) should be included in the selection procedure as, otherwise, a non EU candidate that does not have a Portuguese resident visa to whom no interview was conducted will not be eligible. (see Regulation of Research Fellowships from the Foundation for Science and Technology, I.P., article 14.*
10. **Selection Committee:** The IDL recruiting panel for this call will be constituted by Pedro Miranda (IDL Director, Meteorology), Álvaro Peliz (Oceanography), Susana Custódio (Seismology), Maria Ana Baptista (Tsunami), João Mata (Geology) and Miguel Brito (Renewable Energy).
11. **Publication/notification of results:** The final results of the evaluation will become public, through ordered list final grade obtained which will be posted at the entrance hall of the Fundação da Faculdade de Ciências da Universidade de Lisboa, and all candidates will be notified by e-mail.
12. **Deadlines:** This call for applications is open from July 27 to September 21, 2015
13. **Application:** Applications may be sent via e-mail to cleee@fc.ul.pt and idl@fc.ul.pt by attaching the following documents: (a) a detailed CV, including a list of publications and a Research ID and/or a SCOPUS ID; (b) A research statement of no more than 10000 characters with a proposed line of work; (c) e-mail contacts of 2 reference persons (former supervisors or employers).