



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

Master Fellowship under the Project PTDC/GEO-MET/3476/2012

One Master Fellowship is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, Portugal**, for the project/R&D 'Predictability assessment and hybridization of seasonal drought forecasts in Western Europe'- PHDROUGHT, to be developed 'Laboratório Associado Instituto Dom Luiz (IDL) (<http://idl.ul.pt/>), financed by national Portuguese funds by FCT / MEC (PIDDAC) under the 'Programme All Scientific Domains', under the following conditions:

1. **Scientific Area:** Natural and Environmental Sciences
2. **Requirements for admission:** To be an European Community citizen with a Master degree on Geophysical Sciences (Meteorology, Oceanography or Geophysics), or Environmental Sciences. Applications will also require a good knowledge on FORTRAN, MATLAB and LINUX as well as in statistical modelling. We also require good expertise on data manipulation of meteorological model runs (GCMs) and of climatic data.
3. **Work plan:** The work aims the identification of atmospheric-oceanic predictors (precursors) of precipitation anomalies and drought indices (SPI, SPEI, PDI) in Europe for several temporal scales (3, 6 and 12 months). For that, extensive statistical diagnostics will be performed recurring to NCAR/NCEP, Era-Interim reanalyses, GISS and GPCC data-basis. In a second phase one aims to evaluate the seasonal forecasting skill of drought indices in Europe from ensemble seasonal runs of GCMs, available from the EURO-SIP project. Then one aims to optimize a hybrid combination of seasonal model runs using statistical techniques like projection on large-scale predictable components and others.
4. **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; Fundação para a Ciência e a Tecnologia, I.P. Fellowships Regulation of 2012.
5. **Place of work:** The work will be developed in the *Laboratório Associado Instituto Dom Luiz* (IDL), Lisbon, Portugal (<http://idl.ul.pt/node>) under the scientific guidance of Professor Carlos Alberto Leitão Pires (<http://idl.ul.pt/node/74>).
6. **Fellowship duration:** This position is initially opened for 3 months and will begin on 1 October 2013. The grant contract may be renewed to more 9 months, until one total duration of 12 months.
7. **Monthly allowance:** The fellowship amounts to €980, according to table values of the scholarships awarded directly by the FCT, IP. (<http://www.fct.pt/apoios/bolsas/valores>).
The grant 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 scholarships will be paid monthly by bank transfer.
8. **Selection method:** Candidates will be assessed by the quality of their CV (0 to 3 points), expertise of manipulating GCM output and climatic data-basis (0 to 2 points), knowledge on statistical modelling (0 to 2 points), knowledge on Fortran, Matlab and Linux (0 to 3 points).



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9. **Selection Committee:** Professor Carlos Pires (<http://idl.ul.pt/node/74>) and Doctor Ricardo Trigo (<http://idl.ul.pt/node/143>). In alternative: Dr. Célia Gouveia (<http://idl.ul.pt/node/78>) and Professor Carlos da Camara (<http://idl.ul.pt/node/73>).
10. **Publication/notification of results:** The final results of the evaluation will become public, through an ordered list (*alphabetically or by final grade obtained*) which will be posted at the entrance hall of the **Fundação da Faculdade de Ciências da Universidade de Lisboa**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bldg – 3rd floor, Campo Grande, 1749-016 Lisboa, Portugal, as well as through an e-mail from Professor Carlos Alberto Leitão Pires (clpires@fc.ul.pt). The selected candidate will be notified by e-mail.
11. **Deadlines:** This call for applications is open from 23 August 2013 to 15 September 2013.
12. **Application:** Applications may be sent via e-mail to Professor Carlos Alberto Leitão Pires (clpires@fc.ul.pt) by attaching the following documents: Motivation Letter, Curriculum Vitae signed and dated, copies of academic certificates, copies of the identification document and citizen tax number. Applications may also be sent by mail to Professor Doutor Carlos alberto Leitão Pires Faculdade de Ciências da Universidade de Lisboa, DEGGE, Edifício C 8 – 3^o Piso, Campo Grande, 1749-016 Lisboa.