



CALL FOR AWARDING GRANTS AND PROJECTS UNDER R & D INSTITUTIONS

1 Post-Doctoral Fellowship

1 fellowship - Bolsa (Post-Doctoral Grant) - is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa**, for the project ERA-CLIM/FFCUL institution, Grant Agreement number 265229, co-financed by the European Commission under the Seventh Framework Programme, under the following conditions:

1. **Scientific Area:** Meteorology – Geophysical Sciences
2. **Requirements for admission:** Doctorate Degree in Geophysical Sciences (priority given to Meteorology), Environmental Sciences, Physics, Physical Geography or Computing.
Above average capability to program in Fortran, Matlab or C, this being an essential condition to perform the proposed work. Previous experience in dealing with meteorological observations datasets (quality control, homogenisation tests) is an advantageous asset.
Good knowledge of written and spoken English is also an important asset.
3. **Work plan:** The ERA-CLIM project (2011-2013), coordinated by the European Centre for Medium-Range Weather Forecasts (ECMWF), and financed by EU's Program FP7 aims to build a new reanalysis for the 20th century. The Instituto Dom Luiz (IDL), one of the project partners, possesses in its library a vast set of meteorological historical data in hardcopy format since 1853, for the IDL station of Lisboa/Geofísico (the oldest Portuguese station operating continuously) and for several other posts in Portugal, adjacent Isles (Madeira, Azores) and former colonies. During the project, IDL is responsible for supplying ERA-CLIM with this datasets from 1900 onwards, already digitised, formatted and submitted to quality control tests. During the project's 3rd year (2013) the data should be re-supplied after the application of homogeneity tests and homogenisation procedures.

The work to be developed by the grant researcher includes the management and analysis of the meteorological historical data already digitised and still to be digitised for the period 1900-2012 in ERA-CLIM by IDL. The selected researcher will develop and/or help to develop quality control tests and homogeneity tests and apply them to the IDL digitised datasets. It is also an objective of this work to build homogenisation methodologies and/or apply already existing techniques.
4. **Legislation framework:** Portuguese Law Nr. 202/2012, from 27 August (Research Grant Holder Statute).
5. **Place of work:** The work will be developed at Instituto Dom Luiz (Faculty of Science of the University of Lisbon Campus, Campo Grande, Edifício C8, Lisbon), through the Fundação da Faculdade de Ciências da Universidade de Lisboa, under the scientific supervision of Doutora Maria Antónia Valente.
6. **Fellowship duration:** This position is open for 10 months and will begin on 1st March 2013.
7. **Monthly allowance:** The amount of the scholarship amounts to € 1495/month, according to table values of the scholarships awarded directly by the FCT, IP in the country (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>). (*grants awarded to projects financed by FCT*).
The Fellows 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 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 in the following way:
Curricular evaluation (60%) and an eventual interview (40%) to the applicants that present the closest required profiles for the proposed work.





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The Selection Committee reserves itself the right not to award the grant if none of the candidates presents an adequate profile for the job.

Applications will be evaluated according to the following criteria:

		Weight to apply to marks from 0 to 20
Curricular Evaluation	Academic Evaluation (First degree and/or Master degree)	0.35
	Professional evaluation	0.25
	Programming and computing knowledge	0.3
	Spoken and written English capabilities	0.1
Total		1
Interview	Motivation to work on the proposed subject	0.4
	Team Integration capabilities	0.2
	Availability to develop the proposed work	0.4
Total		1

9. Selection Committee:

President: Maria Antónia Valente, Instituto Dom Luiz

1st Secretary: Ricardo Trigo, Instituto Dom Luiz

2nd Secretary: Célia Gouveia, Instituto Dom Luiz

Substitute Secretaries: Carlos Pires, Instituto Dom Luiz, Departamento de Engenharia Geográfica, Geofísica e Energia, e Carlos da Câmara, Instituto Dom Luiz, Departamento de Engenharia Geográfica, Geofísica e Energia.

10. Publication/notification of results: The final results of the evaluation will become public, through final classification ordered list, 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, and the selected candidate will be notified by e-mail.

11. Deadlines: This call for applications is open from 21 January 2013 to 10 February 2013.

12. Application: Applications may be filed via e-mail to mavalente@fc.ul.pt, attaching the following documents:

Letter stating the motivation for applying to the grant;

Curriculum Vitae;

Copies of First Degree, Master degree (if applicable) and Doctorate Certificates;

Copies of certificates with the academic subject courses and respective marks;

Two recommendation letters and/or reference contacts;

Other certificates with additional training in computing, English or other courses relevant to the proposed work.





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Applications may also be sent by mail to

Maria Antónia Valente
Instituto Geofísico do Infante D. Luiz
Rua da Escola Politécnica, 58
1250-102 Lisboa
Portugal

