

## Call for awarding one Research Fellowship

### Ref. BI-LIC-LANDWRF

One Research Fellowship, for Bachelor degree holders, is available with **Faculdade de Ciências da Universidade de Lisboa**, in the project “Understanding the role of land surface in the Earth System: from weather forecasts to climate change projections”, IF/00817/2015, financed by Fundação para Ciência e Tecnologia, I.P. (FCT)/MCTES, under the FCT Investigator Grant, under the following conditions:

1. **Scientific Area:** Meteorology

2. **Requirements for admission:**

**Mandatory:**

- Bachelor in meteorology, oceanography or geophysics.

If the academic degree required in this Notice, needed for admission, has been obtained abroad, you must take into account the mention in point 13 of this Notice regarding certificates of academic qualification.

**Preferencial:**

- Registered in a Master degree in Geophysical Sciences;
- Be in conditions to attend the 2<sup>nd</sup> year of the master degree and thesis work;
- Experience in python and Linux;
- Experience in using regional numerical weather models.

3. **Work Plan:**

The work will focus on performing and evaluation of regional simulations with the WRF model over mainland Portugal. The main goal is to access different horizontal resolutions in shallow convection during summer. A detailed analysis of convective initialization and organization due to model configuration and surface fluxes is envisaged. This work also aims at further understanding the limitations of forecasting convective summer storms which can have dramatic effects on fire propagation as it was seen in June 2017 in Pedrogão Grande wildfire.

4. **Legislation framework:**

Law No. 40/2004, of August 18th, as amended and republished by Decree-Law No. 202/2012 of August 27th, by Decree-Law No. 233/2012 of October 29th, by Law No. 12/2013, of January 29th, and by Decree-Law No. 89/2013 of July 9th and Lisbon University Fellowships Regulation, published by Order (extract) No. 6977/2015 of June 23th (<https://dre.pt/application/file/67564222>).

5. **Place of work:**

The work will be developed at Instituto Dom Luiz (IDL) in Faculdade de Ciências da Universidade de Lisboa.

6. **Scientific supervision:**

Emanuel Nemésio de Sousa Dutra, PhD, and Miguel de Oliveiros Vieira de Albergaria e Castro Nogueira, PhD, in co-orientation regime.

**7. Fellowship duration:**

This fellowship is opened for 03 (three) months, with an exclusivity regime, eventually renewable once until a maximum period of 06 (six) months, which includes the first period. It is expected to begin in January 2019.

**8. Monthly allowance and Social Insurance:**

8.1. The fellowship amount to € 745 (seven hundred and forty five euros), according to Lisbon University Fellowships Regulation (<https://dre.pt/application/file/67564222>). It will be paid monthly by bank transfer;

8.2. The candidate to be hired may exercise his right to social insurance by joining the voluntary social insurance scheme, under the terms of the Statute of the Research Fellowship. The financing entities assume the costs resulting from the contributions provided for this Social Insurance, according to the Statute of the Research Fellowship.

**9. Selection criteria:**

Candidates will be assessed based on their CV and, eventually, on a selection interview.

If necessary, the selection interview will be conducted to the 02 (two) candidates with highest score on the curricular evaluation.

If both methods of selection are applied, the final classification will be the arithmetic average of CV assessment and interview.

**10. Selection Committee:**

Emanuel Nemésio de Sousa Dutra, PhD (President), Professor Miguel de Oliveiros Vieira de Albergaria e Castro Nogueira (1st Effective Member), Professor Pedro Manuel Alberto de Miranda (2nd Effective Member), Pedro Miguel Matos Soares, PhD (1st Alternate Member) and Alexandre Miguel Urbano da Fonseca Ramos, PhD (2nd Alternate member).

**11. Publication/notification of results:**

The final results of the evaluation will become public, through a final grade ordered list which will be posted at the entrance hall of Faculdade de Ciências da Universidade de Lisboa, C4 building, Campo Grande, 1749-016 Lisboa.

All applicants will be notified of the results of the evaluation to the email address used for sending the respective application, or by post to the applicant's address.

**12. Deadlines:**

This call for applications is open from 13<sup>th</sup> to 27<sup>th</sup> of December 2018.

**13. Application:**

Applications may be sent via e-mail to [candidaturas@ciencias.ulisboa.pt](mailto:candidaturas@ciencias.ulisboa.pt), or personally, at the office address of Núcleo de Expediente da Faculdade de Ciências da Universidade de Lisboa, Edifício C5, piso 1, Campo Grande, 1749-016 Lisboa, during office hours (9.30 a.m. to 4.00 p.m.), until the deadline with the subject. **Whatever the form of submission of the application, it should mention the reference "BI-LIC-LANDWRF", under penalty of not being considered in the present call.**

Applications must be accompanied by the following documents:

- **In the case of being Portuguese citizen, copy of identification document (ID or citizen card);**
- **In the case of not being Portuguese citizen, copy of identification document (ID card or passport) as well as residence authorization, permanent residence authorization or long-term resident status, if applicable;**
- If you agree to be notified for your email address, please send obligatorily the declaration annexed to this Notice;
- Mandatory and under penalty of exclusion from this call, certificates of qualifications of all obtained academic degrees, with final ranking;

In case the academic degree required in this notice, needed for admission, has been obtained abroad, one of the following documents must be submitted compulsorily and under penalty of exclusion from the call: (See also the note below).

- a) Document proving the granting, by a Portuguese Institution, of registration, or recognition, or equivalence to the degree;

b) Document proving that you have already applied for registration, or recognition, or equivalence to the degree, whose request must be submitted until the deadline for apply to this call.

- Mandatory and under penalty of exclusion from this call, Curriculum Vitae, detailed and updated, stating obligatorily the full candidate's address;
- Document proving you are registered in the Master degree in Geophysical Sciences (if applicable);
- Document of employment status, indicating the nature of the bond and functions; this document can be replaced by a declaration under honor commitment if there isn't any professional activity or the provision of services;
- Cover letter;
- Optionally, letters of recommendation.

NOTE:

- 1) **The exhibition of proof of registration, or recognition, or equivalence, of the degree is a mandatory condition for signing the contract;**
- 2) **For academic degrees obtained in foreign countries it is necessary either the register, or the recognition, or the equivalence, according to the terms established in the following legislation:**

- Decree-Law no. 341/2007, of October 12, regulated by Ordinance no. 29/2008, of January 10, amended by Ordinance no. 227/2017, of July 25;

- Decree-Law no. 283/83, of June 21, amended and added by Decree-Law no. 341/2007, of October 12.

For more information you can consult, for example, the following link of the University of Lisbon:

[https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/registodiplomasestrangeiros\\_guia\\_ulisboa\\_jan2018\\_site.pdf](https://www.ulisboa.pt/sites/ulisboa.pt/files/basicpage/docs/registodiplomasestrangeiros_guia_ulisboa_jan2018_site.pdf)

## DECLARATION

\_\_\_\_\_ (name of the candidate), declare that if the selection jury chooses to communicate and or notify applicants by e-mail, I agree that such communications and or notifications are made to the email address used for submission of my application.

(Date)

(Signature)