

Call for awarding one Research Fellowship

Ref^a. BI-MSc-GM3-3

One Research Fellowship for Master degree holders is available with **Faculdade de Ciências da Universidade de Lisboa**, in the Project “*Putting Genetic Programming on the map of Machine Learning for data mining (GM3)*”, IF/00039/2013, financed by national funds by Fundação para a Ciência e a Tecnologia, I.P. (FCT)/MCTES, under the FCT Investigator Development Grant, under the following conditions:

1. **Scientific Area:** Engineering

2. **Requirements for admission:**

Mandatory:

- Must have a Masters degree in any Engineering field;
- Must have experience in remote sensing and spatial analysis;
- Must have good knowledge of forest ecology;
- Must have experience in Google Earth Engine API (JavaScript);
- Must be able to communicate in English, both orally and in writing.

Preferential:

- Knowledge of Machine Learning algorithms.

3. **Work Plan:** GM3 is aimed at making Genetic Programming (GP) better known and recognized in the wider community of Machine Learning (ML) as well as among other scientific areas that normally use ML methods. One of its goals is to provide learning and classification tools based on GP to the remote sensing and geographical information community, and facilitate the tasks related to the processing of satellite imagery in cloud platforms. The chosen candidate is expected to pre-process multi-sensor imagery and to study and test GP methods for classifying image time-series in Google Earth Engine API, responding to the “Land Use, Land-Use Change and Forestry” (LULUCF) and “Agriculture, Forestry and Other Land Use” (AFOLU) sectors and producing burned area maps.

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 shared between Faculdade de Ciências da Universidade de Lisboa and Instituto Superior de Agronomia, on the Department of Natural Resources, Environment and Territory.
6. **Scientific supervision:** Sara Silva, sara@fc.ul.pt, with co-supervision of Maria J. Vasconcelos (maria.perestrelo@gmail.com) of Instituto Superior de Agronomia.
7. **Fellowship duration:** This fellowship is opened for 6 months, renewable until the end of the project (30/12/2018). It is expected to begin in March/April 2018.
8. **Monthly allowance and Social Insurance:**
 - a. The fellowship amount to € 980,00 according to Lisbon University Fellowships Regulation (<https://dre.pt/application/file/67564222>). It will be paid monthly by bank transfer;
 - b. The candidate to be hired may exercise his right to social insurance by joining the voluntary social insurance scheme, under the terms of the Research Fellowship Legislation. The financing entities assume the costs resulting from the contributions provided for this Social Insurance, according to the Research Fellowship Legislation.
9. **Selection criteria:** Candidates will be assessed based on their CV. Only candidates with scores higher than 75% in the CV evaluation will be considered. Additionally, an interview (0-50%) may be conducted if deemed necessary. The final classification will be the arithmetic average of CV assessment and interview.
10. **Selection Committee:** Sara Silva, FCUL (President), Luís Correia, FCUL (1st Effective Member), Leonardo Vanneschi, NOVA IMS (2nd Effective Member), Rob Mills (1st Alternate Member) and Mauro Castelli, NOVA IMS (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 bdg, 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 09th to 22nd of March 2018.
13. **Application:** Application may be sent via e-mail to candidaturas@ciencias.ulisboa.pt, with the subject "BI-MSc-GM3-3", or personally, during office hours (9.30 a.m. to 4.00 p.m.), 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, until the deadline, by attaching 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 post address, please send obligatorily the declaration annexed to this Notice;
- Certificates of qualifications of all obtained academic degrees, with final ranking;
- Curriculum Vitae, detailed and updated, stating obligatorily the full candidate's address;
- 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 is any professional activity or the provision of services;
- Cover letter;
- Optionally, letters of recommendation.

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)