

Call for awarding one Scientific Initiation Fellowship

Ref. BIC-RCW36

One Scientific Initiation Fellowship is available with **Faculdade de Ciências da Universidade de Lisboa**, in the Exploratory Project of the Researcher Program FCT 2015, “Stellar and substellar population of the young star cluster RCW 36”, Ref IF/00194/2015, financed by national funds by Fundação para a Ciência e a Tecnologia, I.P. (FCT)/MCTES, under the following conditions:

1. **Scientific Area:** Astronomy

2. **Requirements for admission:**

Mandatory:

- Registration for the first time in a Bachelor’s or Integrated Master’s Program;
- Physics student, Astronomy & Astrophysics branch, 3rd year;
- Finished course of Laboratório de Astrofísica;
- Experience with near-infrared imaging data reduction and analysis;
- Experience with the IDL programming language;
- Good reading and writing skills in English language.

Preferencial:

- Analysis of young stellar populations in clusters.

3. **Work Plan:**

Reduction of the data of the cluster RCW 36 obtained from SofI/NTT and Flamingos-2/Gemini. Photometric and astrometric calibration. Matching the catalogues from the two instruments. Cross-matching of our catalogues with published ones at other wavelengths (X-ray, Spitzer). The analysis will include determination of membership in the cluster, and derivation of the initial mass function as a function of assumed age, distance and models. Comparison of the results with other works and writing up a report/scientific paper.

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 Faculdade de Ciências da Universidade de Lisboa, in the group SIM (Space Instrumentation and Modeling), at Centro Interdisciplinar de Astrofísica (CENTRA).

6. **Scientific supervision:** Koraljka Muzic, PhD.

7. **Fellowship duration:** This fellowship is opened for 3 months, and it’s not renewable. It is expected to begin in May/June 2018.

8. **Monthly allowance and Social Insurance**

- a. The fellowship amount corresponds to € 385,00 (three hundred and eighty five euros), 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 and eventually a selection interview. The selection interview may be conducted to the top 2 candidates but, in the event of a tie between them, the interview will be obligatory. In this case, the final classification will be the arithmetic average of CV assessment and interview.
10. **Selection Committee:** Koraljka Muzic, PhD (President), Professor André Maria da Silva Moitinho de Almeida (1st Effective Member), Professor António Joaquim Rosa Amorim Barbosa (2nd Effective Member), Professor Paulo Jorge Valente Garcia (1st Alternate Member) and Joana Ascenso, 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 April 24th to May 9th of 2018.
13. **Application:** Application may be sent via e-mail to candidaturas@ciencias.ulisboa.pt, with the subject "BIC-RCW36", 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 e-mail address, please send obligatorily the declaration annexed to this Notice;
 - Official document proving registration in Bachelor's or Integrated Master's Program in Physics, Astronomy & Astrophysics branch;
 - Declaration, dated and signed by the candidate, that he/she had never been registered in FCUL or another institution of Higher Education, in any Bachelor Degree or Integrated Master Program;
 - 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)