Research Grant (BI-Msc) (1 vacancy)

Reference: CANADAPT_BI-Msc_2019-036

A competition is open for the attribution of 1 research grant in the framework of the Project **"CANADAPT - Understanding Darwinian cancer evolution at the single-cell level" with reference POCI-01-0145-FEDER-032030 cofinanced by FEDER through POCI (Programa Operacional Competitividade e Internacionalização) and Fundação para a Ciência e a Tecnologia (FCT, IP)**:

1.   Scientific area: Biological Sciences, Bioinformatics

2.   Admission requirements

The candidates must hold a MSc in Biological Sciences or related fields and work experience in Bioinformatics/Computational Biology. In detail, the candidate must be able to demonstrate:

-Experience in the analysis of NGS data.

- Background in Molecular Evolution

- Programming skills (e.g. BASH, python, perl, C++).

- Experience with computational clusters (remote access, submitting jobs).
- Fluency (speaking and writing) in English.

The jury reserves the right to close the application in case none of the candidates meets the desired profile.

Whenever the degree is from a foreign institution the candidates should recognize them by a Portuguese higher education institution accordingly to the Decreto-Lei n.º 341/2007, published in Diário da República, 1.ª série, n.º 197, 12 October, until the end of the application date.

3. Work plan:
The candidate will be involved in intensive computational work in order to understand the relative role of positive selection, negative selection and neutral evolution in

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tumoral cell populations. The candidate will be expected to carry out several tasks including NGS dataset processing and evolutionary analysis.

4. Legislation and official rules:

Law nº. 40/2004, 18th August (Research Fellowship and Studentship Regulation) amended and republished by Decreto-Lei n.º 202/2012, 27th August; Regulations for Studentships and Fellowships of the Fundação para a Ciência e a Tecnologia, I.P. — 2015 and CIIMAR Grants Regulation approved by FCT.

5. Work place:

The work will be carried out at CIIMAR, Edifício do Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos, s/n, 4450-208 Matosinhos, Portugal, within Animal Genetics and Evolution (AEE) research team, and at University of Vigo, Edifício Torre CACTI Campus Universitário, 36310 Vigo, Spain, within the Phylogenomics Lab.

6. Duration of the contract:

Duration of one (1) year, starting in October, 2019, under the regime of exclusive dedication, eventually renewable according to the legal terms, up to the end of the project.

7. Monthly salary:

The monthly maintenance allowance is €989.70, in agreement with the monthly maintenance stipend table of the grants directly attributed by FCT, I.P. within the country   (http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf). Payment will be made monthly by bank transfer. In addition to this allowance, the grantee will be covered by a personal accident insurance.

8. Selection methods:

The ranking of candidates will be performed by an initial evaluation based on:

– Evaluation of the Curriculum Vitae (EC) - 70% (which is eliminatory);

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The Evaluation of the Curriculum Vitae will be performed according to the following criteria:

    i.   Demonstrated experience in evolutionary analysis - 30%

    ii.   Demonstrated experience in handling NGS pipelines - 30%

    iii.   Demonstrated coding skills - 30%

    iv.   Motivation letter (ML) – 10%.

The Evaluation of the Curriculum Vitae will be performed according to the following criteria:

EC = [30%(i)+30%(ii)+30%(iii)+10%(iv)]

In the second phase and after the sorting of the candidates following CV evaluation, there will be an interview to a maximum of three candidates if they are separated by less than 10% according to the jury criteria. All the factors will be pondered according to the formula:

INT = 30%

The final score (CF), expressed in a number from 0 to 20, will weight in the Curriculum Vitae evaluation (70%) and the interview (30%):

CF = 70%EC+30%INT

If the candidates do not show up in the interview they will be withdrawal from the application, being excluded from the competition.

9. Composition of the jury selection:

President of the jury: PhD Miguel Fonseca

Vogal: PhD Filipe Castro

Vogal: PhD David Posada

10. Form of Advertising/notification of results:

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The final results of the evaluation will be published through a list sorting the candidates according to their attributed mark, on the CIIMAR website and by e-mail;

After the announcement of the results, candidates are considered automatically notified to, if they wish to do so, comment on the results on a preliminary hearing period within 10 working days after that date, as provided for in the Código do Procedimento Administrativo.

The jury reserves the right to not assign the grant depending on the quality of the applications.

In case of resignation or withdrawal of the selected candidate, the next candidate with the highest evaluation score will be notified immediately.

Based on the final sorted list of the candidates it will be made a reserve list that will be used for the future recruitment of grantees for this project.

11. Deadline for application and presentation of applications:

The competition is open from **19th of August until 2nd of September 2019**. The applications must be formalized, compulsorily, by sending the following documents:

- detailed Curriculum vitae with clear specification of i) list of peer reviewed publications, books and/or reports proof the experience in the above-mentioned fields ii) list of the computer skills (software and/or programming languages for simulation and data analysis)

- copy of the eligibility certificates;

- motivation letter;

- one or more reference contact information of current or past supervisors;

- contact e-mail address and phone number;

- indication of the reference of the competition (as indicated in this announcement).

- any other documents that the candidates may recognize as relevant to demonstrate the adequacy to the function

The applications must be sent by postal mail to Manuel Galvão, CIIMAR – Centro Interdisciplinar de Investigação Marinha e Ambiental, Terminal de Cruzeiros do Porto de Leixões, Av. General Norton de Matos, s/n, 4450-208 Matosinhos, and simultaneously by e-mail to mgalvao@ciimar.up.pt. The applications that **do not include all** the elements previously indicated will **not be considered**.

Cofinanciado por: