

ANÚNCIO Nº 20/2017/BPD bioinfo

**INIAV - Unidade Estratégica de Investigação e Serviços de Biotecnologia e Recursos Genéticos do
INIAV, IP (Biotechnology and Genetic Resources Unit)**

Fellowship

INIAV (National Institute for Agrarian and Veterinarian Research) has available a postdoc position in the ambit of FASTBREED – implementation of a breeding program on wheat varieties based on genomic selection funded by Programa Alentejo 2020 (ALT20-03-0145-FEDER-000018). The project involves two Portuguese research institutions located at Alentejo province of Portugal. The project goal is to use GBS as markers for genomic selection approaches.

Scientific Field

Bioinformatics, Agronomics, Genetics

Candidate profile

For this position we are looking for a highly motivated bioinformatician with experience in processing and analysis of high-throughput sequence data. The successful candidate will be involved in the GBS analysis for SNP identification and genomic selection prediction. Previous experience with *de novo* assembly and annotation of genomes and/or transcriptomes is extremely valuable. Programming in Perl and/or Python, as well as experience with software for analysis of genomics and high-throughput sequence data, are essential. The successful candidate will be part of a multidisciplinary team and will work closely with the project's senior scientists and biologists.

Qualifications

- PhD degree in bioinformatics, genetics, computational biology or related field

Preferential skills

- Previous experience in analysis of high-throughput sequence datasets and GBS analysis
- Familiarity with genome assembly and annotation is highly desirable
- Strong programming skills in Perl and/or Python
- Skills and experience in UNIX/LINUX programming
- Plant Breeding experience
- Strong interpersonal skills and ability to interact with project members in a team-oriented effort

Work Plan

- Process and analyze high-throughput sequence data, using custom scripts and publicly available software
- Participate in the design and/or execution of experiments conceived to answer the project's goals
- Maintain and document data analyses pipelines
- Play an active role in the development and maintenance of the infrastructure related to bioinformatics
- Keep updated knowledge about the latest developments in the bioinformatics field, contributing when necessary to improve the project's hardware/software/analysis capabilities

Work place

The position will be based at INIAV (Instituto Nacional de Investigação Agrária e Veterinária – National Institute of Agriculture and Veterinary Research), in Santarém and CEBAL in Beja, Portugal. The scientific coordination will be provided by Dr. Marcos Ramos (CEBAL).

Scientific leadership: Fernanda Simões (INIAV) and Marcos Ramos (CEBAL)

Duration

The position will be available for 25 months from June.

Salary

The salary will consist of net 1495 euro per month. These values are defined by FCT (Fundação para a Ciência e a Tecnologia-Science and Technology Foundation).

Applicable law

Estatuto do Bolseiro de Investigação Científica, Law 40/2004, 18 August, modified on 29 October and Law 12/2013, 29 de January and Law 89/2013, 9 de July; Regulamento de Bolsas de Investigação da Fundação para a Ciência e a Tecnologia, I.P.

<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015>

Selection criteria

The selection criteria will be the following:

- Expertise in bioinformatics (50%)

- Previous experience in GBS analysis (30%)
- Publication record (20%)

Selection committee

The selection committee will consist of Dr. Marcos Ramos (CEBAL) as president and Dr. Fernanda Simões and Dr. Jose Matos (INIAV).

Publication of the results

The results will be communicated to all candidates by e-mail.

Application procedure

The applications should be sent by email to: fernanda.simoese@iniav.pt and include the following documents:

- a) Applicant's *curriculum vitae*;
- b) Copy of the Identification Card and the Tax Identification Number or, alternatively, the Citizen Card and, for foreign citizens, copy of similar documents;
- c) Letter of interest
- d) Any other elements that the applicant deems relevant.

Application deadline:

The application deadline is 30 may 2017.

The starting date is 17 may 2017.

For more information about this position please contact fernanda.simoese@iniav.pt