

ANÚNCIO Nº 24/2017/BPD_biostat

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 and phenotypic markers for genomic selection approaches.

Candidate profile: Candidate must have prior experience in processing and analyzing phenotypic and genotypic data such as GBS markers. It should also be proficient in Linux and script programming and have relevant experience in using statistic tools and software for analysis. The candidate will be part of a multidisciplinary team and will work together with the other team members.

Scientific Field: Statistics, quantitative genetics, plant breeding or related field.

Qualifications

- PhD degree in biostatistics, quantitative genetics, plant biotechnology or related field

Preferential skills:

- Experience in the use of genetic-statistical software used in plant breeding
- Experience with analysis of large genomic datasets
- Knowledge in quantitative genetics
- Experience in statistical analysis
- Knowledge of Linux and programming scripts
- Interest in applying complex statistical models to real data

Workplan: Implementation of statistical analysis tools. Analysis of data sets (phenotypic, markers and pedigree) for the development or adaptation of methods for marker assisted selection activities. Genotyping will be performed by high throughput sequencing ("GBS"). The candidate will work on analyzing and publishing the experimental data and will be involved in the development of new biometric methods. Using of the theoretic simulation and phenotypic and genomic data from wheat breeding programs with the objective of optimizing prediction methods to be used as an approach for decision making. Experience with GS, GBLUP and GWAS models will be acquired with a six-month fellowship in the UK.

Work place: INIAV (Instituto Nacional de Investigação Agrária e Veterinária) at Elvas Pole.

Scientific guidance: Dr. Marcos Ramos (CEBAL) and Dr. Nuno Carolino (INIAV)

Duration: The position will be available during 21 months from January 2018 to September 2019.

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

Selection criteria

Selection criteria: Experience in quantitative genetics (50%), experience in statistical analysis models (30%) and publications (20%).

Selection committee

The selection committee will consist of Dr. Nuno Carolino (INIAV) as president and Dr. Marcos Ramos (CEBAL) and Dr. Benvindo Maçãs (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: polo.elvas@iniav.pt including 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 starting date is 18th October 2017.

The application deadline is 31st October 2017.

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