Instituto Nacional de Investigação Agrária e Veterinária, I.P.

Annoucement Nº 7/2017/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 as 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 or related field

Preferential skills:
Previous experience in BLUP and GLUP mixed model methodology and proficiency in related statistical software.
- Experience in the use of genetic-statistical software used in plant breeding
- Experience with analysis of large genomic datasets
- Knowledge in quantitative and genetic genetics of populations
- 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 for 29 months from February.

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

REPÚBLICA PORTUGUESA
AGRICULTURA, FLORESTAS E DESENVOLVIMENTO RURAL
Av. da República, Quinta do Marquês,
2784-505 Oeiras
Tel: 214 403 500 | Fax: 214 403 666
E-mail:drh@iniav.pt | www.iniav.pt

Selection criteria
Selection criteria: Experience in quantitative genetics (40%), experience in BLUP and GLUP analysis models (40%) 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 interes;t

d) Any other elements that the applicant deems relevant.

Application deadline:
The application deadline is 2 february 2017.
The starting date is 20 January 2017.
For more information about this position please contact fernanda.simoes@iniav.pt

REPÚBLICA PORTUGUESA
AGRICULTURA, FLORESTAS E DESENVOLVIMENTO RURAL
Av. da República, Quinta do Marquês,
2784-505 Oeiras
Tel: 214 403 500 | Fax: 214 403 666
E-mail:drh@iniav.pt | www.iniav.pt