

## ANÚNCIO Nº1/2018/BI

**Instituto Nacional de investigação Agrária e Veterinária, INIAV, I.P.**

### **Fellowship**

INIAV (National Institute for Agrarian and Veterinarian Research) has available a research technician position in the ambit of Contrato Hidrogenoma.

General Scientific Area: Experimental Biology

Specific scientific area: Computational Biology and Bioinformatics

#### **Duration:**

Full-time 12 months starting in March 2018

#### **Monthly stipend:**

745 euros per month.

#### **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>

#### **Location:**

INIAV's Oeiras Campus, Quinta do Marquês in Oeiras.

#### **Qualifications:**

Bachelors or Masters in Computational Biology and Bioinformatics, Biological Sciences, or related fields.

### Job description:

The successful candidate will carry out laboratory and related work described in project Hidrogenoma. Duties will include: preparation of libraries, library validation, quantification, normalization, and pooling and running of NSG experiments for 16S, ITS, viromes, RNA-Seq), analysis of data and presentation of results based on an Illumina MiSeq system.

### Skills required:

Applicants should have sound knowledge in the following areas:

Using sequencing platforms such as Illumina MiSeq

- PCR, RT-PCR
- experience in preparation of libraries, library validation, quantification, normalization, and pooling, optimizing cluster densities on Illumina MiSeq, running of NSG experiments for metagenomics data, 16S, ITS, viromes, RNA-Seq),
- Analysis of data and presentation of results based on an MiSeq system.
- Comparative genomics
- Experience in high Throughput Sequence Data Computing languages (e.g. Matlab, PERL, Python, R, Unix), introductory statistics (i.e. Statistical Analysis in R)
- Experience in Biological databases and bioinformatic tools (e.g. NCBI, BLAST, ENSEMBL, SwissProt, UniProt, MitoZoa, Plink). DNA sequence analysis and read alignment software (MG-RAST, Galaxy, CodonCode, MEGA, SeaView, CLC Sequence Viewer, Geneious IGV, ClustalW, MAFFT, bwa). RNA-seq data analysis software (TopHat, Clufflinks). Phylogeny and population genetics software (MrBayes, Past, Arlequin, Structure). Basic knowledge of R.

### Assessment :

Applicants will be selected based on their *Curriculum vitae* (50%) and interview (50%). The criteria for selection will be:

C1 – Licentiate Degree (Pre-Bologna) in the relevant area (10 points); Licentiate degree (Post-Bologna) with an integrated Master's degree (8 points); M.Sc of at least 5 years (5 points); = C1; Weighting: P1 = 0.3.

C2 - Professional training and experience, technical and scientific curriculum in relevant areas competition (graded from 0 to 20 = C2); Weighting: P2 = 0.7.

The *Curriculum vitae* ( AC) is evaluated (0 to 20) as follows:

$$AC = C1 \times P1 + C2 \times P2$$

The successful applicant will be on probation for a period of 3 months during which time the contract may be cancelled without prior notice and will comply with the clauses in the project's Collaboration Protocol, signed by all participating entities.

The grant is awarded according to the Statute of Scientific Research Grants defined in Law no. 40/2004, dated August 18, as worded in Decree-Law no. 202/2012, of August 27, amended by Decree-Law no. 233/2012, of October 29, by Law no. 12/2013, of January 29, and by Decree-Law no. 89/2013, of July 9.

#### **Documents required:**

- Letter of motivation (dated and signed)
- Complete *curriculum vitae* according to the European format, highlighting experience and training in relevant areas (dated and signed);
- Contact information for 2 references
- Certified documents, when appropriate

Documents have to be in PDF format and should be sent by e-mail to: paula.sapereira@iniav.pt, Project Manager, Dr. Paula Sá Pereira

Applications submitted by hand or by post will not be accepted.

#### **Application dates:**

From 6<sup>th</sup> until the 19<sup>th</sup> of March. 2018.

#### **Notification of results:**

Applicants who obtain a final score of 10 or more will be ranked to the first decimal place. Two lists of approved and excluded candidates will be made available. These will be sent to all candidates by e-mail as well as posted at the INIAV's human resources department in Oeiras located at Quinta do Marquês, Avenida da Republica, 2780-185 Oeiras. The lists will also be posted on the INIAV website (<http://www.iniaiv.pt/menu-de-topo/quem-somos/recursos-humanos/bolsas-e-estagios>).

## Jury

The Jury for the evaluation of the candidatures will be constituted by:

Chairperson: Paula Vicente de Sá Pereira - Research Scientist - INIAV.

1st member: Eugénia Simas Marques, Research Scientist - INIAV

2nd member - Maria Joana Guimaraes - Senior Technician

Any queries may be addressed to Paula Alexandra Ramos Vicente de Sá Pereira  
([paula.sapereira@iniav.pt](mailto:paula.sapereira@iniav.pt)).