



**NOVA University of Lisbon**  
**Institute of Hygiene and Tropical Medicine (IHMT NOVA)**  
**Advert seeking a PhD graduate to perform researcher activities:**

**Scientific Employment Competition Ref. PTDC/SAU-INF/29971/2017**

According to the provisions of Decree-Law no. 57/2016 of 29 August, and taking into account the legal regime to which it refers, and is contained in the same legal document, a competition procedure of international selection is open, to fill a doctoral position for the exercise of scientific research activities, financed by national funds through the Foundation for Science and Technology, with the following guidelines and specifications:

**Background**

- a) The decision to open the competition procedure is due to the fact that the project PTDC/SAU-INF/29971/2017 includes in its work plan, scientific research activities to be carried out by a the postdoctoral researcher.
- b) The contract with the winner of the competition is subject to the condition that it is being adequately funded by a budget allocation through a development contract to be signed by FC&T with the host Institution, in order to fund the competition.
- c) Candidates who do not earn 10 points on a scale between 0 and 20 of the respective ranking criteria will not be allowed to fill the position due to lack of sufficient absolute merit.

**GENERAL APPLICATION REQUIREMENTS:**

- a. National, foreign and stateless persons with a PhD in Biomedical Sciences with specialization in Molecular Biology
- b. Holders of a scientific and professional *Curriculum vitae* showing an appropriate profile for the activity to be performed;

If the PhD has been awarded by a foreign higher education institution, it must comply with the provisions of Decree-Law no. 341/2007, of 12 October, and the fulfilment of any formalities established therein must occur by the application expiration date.

The recognition of the foreign academic degrees will only be required to the candidates selected to celebrate the employment contract.

If the candidates selected to celebrate the employment contract do not deliver the recognition of the foreign academic degrees until the date of the signature of the contract, it will determine that the contract will pass for the candidate ordered in second place and so on, successively.

### **SPECIFIC ADMISSION REQUIREMENTS:**

- PhD in Biomedical sciences with specialization in Molecular biology;
- Experience in working with human biological samples in compliance with ethical and safety requirements;
- Experience in establishing, maintenance and preservation of primary cultures of eukaryotic cells, namely human hepatocytes and human fibroblasts;
- Experience in Imaging Mass Cytometry application to multiparametric tissue analysis, including experimental design, sample processing and image analysis;
- Experience in genetic engineering of recombinant viruses, their production and purification;
- Experience in Flow cytometry and FACS analysis;
- Experience in working with murine animal models;
- Bioinformatic skills, namely experience with use of MCD Viewer and Vector NTI softwares;
- Ability to establish and coordinate scientific collaborations at international level between academic and industry partners;
- Publications in peer-review scientific journals;
- Good oral and written communication skills;
- Ability to work integrated in a team, to guide and teach other team members;
- Ability to work independently;
- Availability for exclusive dedication;
- Availability to start contract in March 2019;
- Fluent in Portuguese and English languages;

### **TASKS TO BE PERFORMED:**

- *In vitro* cell culture including the establishment and maintenance of human primary hepatocytes and fibroblasts;
- Study simultaneous expression and spatial distribution of multiplex proteins in cells and tissues using Imaging Mass Cytometry;
- Genetic engineering technologies to generate recombinant virus particles;
- Virus infection, production, and purification;
- Use of a wide range of techniques to study protein expression in cells and tissues, including confocal microscopy, immunohistochemistry, and western blot;
- Flow cytometry and FACS analysis;
- Determination of relative and absolute gene expression levels including by qRT-PCR;
- Manipulation of animal mouse models;
- Manipulation of biological samples of human origin in compliance with ethical and safety regulations;
- Use of Vector NTI suite and MCD viewer softwares;

- Supervision of students, fellow investigators, and technicians' members of the research team;
- Generic responsibilities of laboratory organization;
- Additional tasks needed to assure the proper functioning of the laboratory.

#### **CONTRACT AND STATUS:**

The employment is carried out by means of an unfixed-term contract under the terms of the Labour Code, as a PhD, Level 33 of the single remuneration table (TRU), in accordance with Decree-Law no. 11-A/2017, of 29 December.

#### **WORKPLACE:**

IHMT-NOVA, Lisbon

#### **DURATION OF CONTRACT:**

The contract will start in March 2019, may be in force until the end of the project, and can not, in any case, exceed 6 years under the Law.

#### **DOCUMENTS THAT SHOULD BE INCLUDED IN THE APPLICATION:**

- i) Motivation Letter (max. 3000 characters, including spaces);
- ii) Copy of certificate or diploma;
- iii) Detailed *Curriculum vitae* according to the application requirements;
- iv) Other relevant documents to the evaluation of the profile suitability;
- v) Copy of the identification card or passport.

#### **METHODS OF SELECTION AND DEFINITION OF WEIGHTS:**

Curricular evaluation (evaluation of *Curriculum vitae* and motivation letter according to the aspects specified in general and specific application requirements) - 90%

Interview (if needed) - 10%

If the interview will not be needed due to the application of one single candidate the curricular evaluation will be considered sufficient to rank the applicant, and will weight 100%.

The indication of selection methods, their respective weights and classification system will be reported at first minute of Panel meetings.

**COMPOSITION OF THE EVALUATION PANEL:**

President: Inv<sup>a</sup> Doutor João Paulo Tavanez da Silva Fernandes, Research Assistant, IHMT-NOVA

Chair: Prof. Doutor Miguel Viveiros Bettencourt, Full Professor IHMT-NOVA

Chair: Inv<sup>a</sup> Doutora Ana Gonçalves Domingos, Research Assistant, IHMT-NOVA

Chair: Inv. Doutor Carlos Augusto Barbosa Penha Gonçalves, Principal Investigator, IGC

Chair (substitute): Inv<sup>a</sup> Doutor João Alexandre Guarita da Silva Rodrigues, Principal Investigator, IMM

**APPLICATION DEADLINE:**

The deadline for submission of applications is 10 working days from the date of publication in the Official Gazette.

Full notice of this procedure will be available on the FCT website at <http://www.eracareers.pt> and on the IHMT website at <http://www.ihmt.unl.pt/category/bolsas-e-concursos/>.

The application must be sent by email indicating the reference in the subject field, to the email address [joao.fernandes@ihmt.unl.pt](mailto:joao.fernandes@ihmt.unl.pt) by 5 pm of the last day for submission of applications.

**Notification of Results:** All applicants will be informed of the results via email.

Pursuant to Article 9 (h) of the Constitution, the Public Administration, as an employer, actively promotes a policy of equal opportunities for men and women in accessing employment and professional advancement, scrupulously and any form of discrimination.