

Instituto de Tecnologia Química e Biológica António Xavier (ITQB NOVA)
Call for a PhD researcher
**“ONEIDA - Omics Network to Prevent and Control Infectious Diseases and
Antimicrobial Resistance”**

In accordance with the Decree-Law nº 57/2016 of 29 August, with the amendment introduced by Law 57/2017 of 19 July, **Instituto de Tecnologia Química e Biológica António Xavier (ITQB NOVA)** opens a call for a PhD Researcher in the field of Bioinformatics, in the scope of the project nº 016417 **ONEIDA** (Omics Network to Prevent and Control Infectious Diseases and Antimicrobial Resistance) financed by *Fundos Europeus Estruturais e de Investimento (FEEI) - Comissão Diretiva do Programa Operacional Regional de Lisboa* and by the state budget - *Fundação para a Ciência e a Tecnologia, I.P.*

Work plan:

The candidate will be responsible for:

- analysis of high throughput sequencing (HTS) data for surveillance and outbreak characterization purposes in hospital settings;
- phylogenetic and evolutionary analysis of HTS data for population structure analysis of major human pathogens.

The selected candidate will support the activities of several research groups at the ITQB NOVA that participate in the ONEIDA project, and will therefore contribute to different scientific projects.

More information regarding ONEIDA project is available at www.itqb.unl.pt/oneida.

Academic qualifications: PhD in Bioinformatics, Computational Biology, Microbiology, Biology, Health Sciences or related fields.

Scientific Area: Computer Science/Bioinformatics.

Required skills and competences:

Extensive experience in the analysis of high throughput sequencing data, including de novo genome assembly and read mapping methods;
Experience in microbial bioinformatics data analysis including phylogenetic analysis;
Excellent organizational and communication skills;
Independence and ability to work as part of a multidisciplinary team;
Proficient use of English.

Other skills:

Knowledge of Python, Perl, R, Javascript;
Knowledge of univariate and multivariate statistics.



Remuneration:

PhD researcher, salary index to the Single Salary Table (TRU) level 33, approved by *Decreto-Regulamentar* nº 11-A/2017, 29 November. The contract is predicted to start in April 2018.

Employment contract for an uncertain term (according to the article 18, paragraph b), and paragraph 1 and 3 of article 6, DL No. 57/2016, of August 29, amended by Law No. 57/2017, of July 19), with a maximum duration of 21 months.

Application formalization:

- Detailed CV;
- Motivation letter;
- Contacts of two references;
- PhD certificate.

Selection criteria: Evaluation of application (*Curriculum vitae*, suitability of profile based on skills and competences, and motivation letter) - 50%; Interview (50%).

Jury: Professor Doctor Raquel Sá Leão (ITQB NOVA, President of the Jury), Professor Doctor Adriano O. Henriques (ITQB NOVA), Doctor Vítor Borges (National Health Institute Ricardo Jorge, IP), Doctor Mónica Serrano (ITQB NOVA, substitute) and Doctor José Pereira-Leal (Gulbenkian Institute for Science, substitute).

Submission of applications: The application call starts on 8 March 2018 and ends on 19 April, 2018.

All documents **must** be sent as a **single PDF** file by email to concursos@itqb.unl.pt indicating the reference ONEIDA – Bioinformatics in the subject.

Notification of Results: All candidates will be notified by e-mail.

