

## One Research Fellowship for a Master holder

One Research Fellowship for a Master holder is opened at under the scope of the UCIBIO/NOVA.ID.FCT – Associação para a Inovação e Desenvolvimento da FCT (UCIBIO/Multi/04378), with the internal reference (UCIBIO/BI/039/2016) which is financed by national funds from FCT/MEC (UID/Multi/04378) and co-financed by the ERDF under the PT2020 Partnership Agreement POCI-01-0145-FEDER - 007728).

- 1. Scientific area:** Not applicable
- 2. Admission Requirements:** Applicants should have a Master in Electrical Engineering, Physics Engineering, Biomedical Engineering, Micro and Nanotechnologies Engineering, or related areas. Preference will be given to candidates with good command of English and with previous experience in Electronics.
- 3. Work Plan:** We are seeking a creative and enthusiastic hands-on engineer to design and assemble an innovative sensor for healthcare.  
Objectives and Methods: The research aim is to design, assemble and operate a new device for the non-invasive detection of bacterial infections. The candidate will have to design instrumentation systems based on microcontrollers, implement miniaturized sensing systems in SMD technology, develop embeded code for microcontrollers, develop signal acquisition, processing and classification code in matlab or python.
- 4. Rules and Regulations:** Law Nr. 40/2004, of 18th August altered and republish by Decree-Law nº 202/2012 of August 27th (Scientific Research Fellow Statute) and altered by the Decree-Law nº233/2012 of October 29th and by the Law nº12/2013 of January 29th. Regulations for Advanced Training and Qualification of Human Resources, I.P in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>).

- 5. Working location and supervisor:** The work is to be carried out at the Biomolecular Engineering Group ([http://sites.fct.unl.pt/biomolecular\\_eng/](http://sites.fct.unl.pt/biomolecular_eng/)) at Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa (FCT-NOVA) under the scientific supervision of Professor Ana Cecília Roque (UCIBIO, FCT-NOVA).
  
- 6. Fellowship duration:** The fellowship is for 6 months, eventually renewable during the course of the project, and is due to start during October 2016.
  
- 7. Salary and benefits:** According to the regulations of the FCT Scientific Fellowships in Portugal (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>) the net salary will be of 980 EUR/month, which will be paid monthly by bank transfer. The fellow will be covered by a personal accident's insurance and can contribute voluntarily to the national social security system, according to Decree-Law nº 40/89, of 1 February.
  
- 8. Selection methodology:** A two-step selection procedure will be followed. First, candidates will be ranked (0-20) based on their personal merit as assessed by Curriculum Vitae (40%), the match between the candidate's profile and the project (30%), motivation and relevant work experience for the development of the project (30%). When appropriate, the top candidates ranked in the first stage of evaluation will be called for an interview. In these cases the final grade will be obtained by 50% (first-stage classification) and 50% (interview classification).
  
- 9. Jury members:**  
President of the Jury: Ana Cecília Roque, PhD;  
Effective jury members: Susana Palma, PhD.; Hugo Gamboa, PhD;  
Substitute jury members: Ana Sofia Pina, PhD; Arménio Barbosa, PhD.
  
- 10. Notification of Results:** The results will be publicized through the display of ranking list in a public, visible place at the Chemistry Department of Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa. All candidates will be informed of the final results via e-mail.

**11. Application Procedure:** Application is open from the 17<sup>th</sup> August 2016 to the 18<sup>th</sup> September 2016. Candidates should send a single PDF file including

- (a) Cover letter;
- (b) Detailed Curriculum vitae (including email address and telephone)
- (c) Certificate of all degrees obtained containing the final mark
- (d) Two updated reference letters AND two extra reference contacts.

Applications should be sent to: Professor Ana Cecília Roque ([cecilia.roque@fct.unl.pt](mailto:cecilia.roque@fct.unl.pt)) with the subject “Application to UCIBIO/BI/039/2016”