



## CALL FOR AWARDING RESEARCH FELLOWSHIPS WITHIN PROJECT GRANTS AND R&D INSTITUTIONS

### Research Fellowship (BI-RE)

One research fellowship (BI-RE) for a holder of a doctoral degree is open at the **Fundação da Faculdade de Ciências da Universidade de Lisboa, F.P. (FFCUL)**, for a project entitled “Transcranial brain stimulation as innovative therapy for chronic pediatric neuropsychiatric disorders” (STIPED), to be carried out at the Institute of Biophysics and Biomedical Engineering, and funded by the European Union’s Horizon 2020 research and innovation programme under grant agreement No 731827, under the following conditions:

1. **Scientific Area:** Biomedical Engineering
2. **Requirements for admission:** Applicants should have a doctoral degree in Biomedical Engineering, Physics or related areas and have a strong background in bioelectromagnetics. Degrees from outside the European Union must have been officially recognised by a Portuguese University.
3. **Factors preferred:** Preference will be given to candidates with experience in segmentation of magnetic resonance images of the head, and mesh generation for finite element analysis. Previous experience with the finite element method is also an advantage.
4. **Work plan:** The successful candidate will be involved in setting up an automatic pipeline to create individual head models from MRI and DTI data, based on tetrahedral meshes for finite element analysis of the electric field in the brain. Successful automatic segmentation may require the development of age specific templates for 10 – 18 years old healthy subjects. The candidate will also be involved in developing methods to automatically place electrodes on the scalp at standard positions of the 10/10 International system, and to automatically define target regions such as the dlPFC, the rIFC or the TPJ. Methods to determine electrode positions and currents that optimize the electric field at the selected targets will also have to be implemented. This work will be carried out in collaboration with a PhD student hired for the same purpose and funded by the same project.
5. **Legislation framework:** Statute of the Scientific Research Fellowship, in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of January 29, and Decree-Law No. 89/2013 of 9 July; And also by the FCT, I.P. Fellowships Regulation, in force (<http://www.fct.pt/apoios/bolsas/docs/RegulamentoBolsasFCT2015.pdf>) and FFCUL’s Fellowship Regulation, as approved on 22<sup>nd</sup> December 2014.
6. **Place of work:** The work will be developed at the Institute of Biophysics and Biomedical Engineering (IBEB), Faculty of Science of the University of Lisbon, under the scientific guidance of Pedro Cavaleiro Miranda.
7. **Fellowship duration:** This position is initially opened for 6 months and will begin on the 1<sup>st</sup> of April 2017. The fellowship contract may be renewed for 8 additional periods of 6 months each plus a final period of 3 months, for a total duration of 57 months, or eventually until the end date of the project, in accordance with the provisions of Regulation of Research Fellowships from the Foundation for Science and Technology, I.P.
8. **Monthly allowance:** The fellowship amounts to € 1450.00. This monthly allowance may be increased during the course of the fellowship up to the limit of € 1800.00. This amount is not subject to income tax. The fellowship holder will have a personal accident insurance and, if not covered by any social protection scheme can ensure the right to social security through adherence to the voluntary social insurance scheme, pursuant to Código dos Regimes Contributivos do Sistema Previdencial de Segurança Social. The fellowship will be paid monthly by bank transfer.





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9. **Selection method:** Candidates will be assessed by the quality of their CV and the motivation letter (50%) and the relevance of their experience (50%). Shortlisted candidates will be interviewed via Skype. In this case, the weights will be: quality of CV and motivation letter (33%), relevance of experience (33%), interview (34%). The Committee reserves the right not to make any appointment, should there be no suitable candidates.
10. **Selection Committee:** Pedro Cavaleiro Miranda (President), Alexandre Andrade and Nuno Matela (members), Hugo Ferreira (substitute).
11. **Publication/notification of results:** The final results of the evaluation will become public, through an ordered list of the final grade, which will be posted at the entrance hall of the **FFCUL**, located at the Faculdade de Ciências da Universidade de Lisboa, C1 bldg – 3<sup>rd</sup> floor, Campo Grande, 1749-016 Lisboa, and sent by email to the candidates. The selected candidate will be notified by e-mail.
12. **Deadlines:** This call for applications is open from the 6<sup>th</sup> of February 2017 to the 8<sup>th</sup> of March 2017. Interviews will take place between the 10<sup>th</sup> and the 14<sup>th</sup> March 2017.
13. **Application:** Applications may be sent via e-mail to [pcmiranda@fc.ul.pt](mailto:pcmiranda@fc.ul.pt), by attaching the following documents: detailed Curriculum Vitae, motivation letter, copy of doctoral degree, and other documents deemed relevant. Applications sent by mail will not be accepted.

