

INSTITUTO DE MEDICINA MOLECULAR JOÃO LOBO ANTUNES
MREMONDES LAB
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CALL FOR A RESEARCH FELLOWSHIP
Reference of Fellowship IMM/BI/78-2019

The Instituto de Medicina Molecular João Lobo Antunes (iMM Lisboa) opens a call for a Research Fellowship under *Sistema de Apoio à Investigação Científica e Tecnológica* (SAICT) – **Aviso n.º 02/SAICT/2017 - Projeto de Investigação Científica e Desenvolvimento Tecnológico (IC&DT)** with the funding support from FCT/MCTES through national funds (PIDDAC) under the project *PTDC/MED-NEU/29325/2017 – “Hippocampal-cortical coordination and the mechanisms of cognition: the formation and retrieval of contextual memory during decision-making”* (MNEMOSpike).

Work Plan and Goals

- Behavioral training of rodents on a temporal interval estimation task.
- Build and implement neural recording devices to apply to awake-behaving animals.
- Develop and implement methods to analyze data resulting from the above activities.
- In vivo characterization of entorhinal and hippocampal activity during the execution of the above behavioral task.
- Assist and advise, technically and scientifically, other lab members in their ongoing projects;

Scientific Area: Neuroscience

Candidate's Profile

- 1) MSc in Physics, Biology, Psychology, Electrical/electronics Engineering, Biotechnology or akin areas;
- 2) Experience in in vivo and in vitro electrophysiology recordings in the rodent brain,
- 3) Experience in presenting neurophysiology data in international meetings.
- 4) Solid knowledge of engineering applied to data acquisition, computation, and computational statistics applied to neurophysiology data analysis,
- 5) Experience with neuronal manipulation tools (optogenetics and pharmacogenetics);
- 6) Experience and solid knowledge of Linux and PC OS's, as well as programming languages including, but not limited to, Python, Matlab, applied to neurophysiology.
- 7) Fluency in read, spoken and written English.

NOTE: In the event the MSc degree was awarded by a foreigner higher institution, the degree must comply with the provisions of Decree-Law nr 66/2018, 18th August, and all formalities established there must be fulfilled by applications deadline.

Duration of Fellowship: 6 (six) months on an exclusive basis and eventually renewable until a maximum of 12 (twelve) months, **not exceeding the eligible period of the project.**

Law and Regulation: **Law and Regulation:** Estatuto do Bolseiro de Investigação (Lei n.º 40/2004, de 18 de Agosto, republished in attachment to Decreto-Lei n.º 202/2012, de 27 de Agosto), current Regulation of Fellowships of Fundação para a Ciência e a Tecnologia, Career By-Law and Assessment Regulation of iMM.

The iMM undertakes to ensure compliance with the principles of non-discrimination and equality and to that extent, provides that no candidate can be privileged, benefited, harmed or deprived of any right or exempted from any duty due in particular ancestry, age, gender, sexual orientation, marital status, family status, economic status, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic disease, nationality, ethnic origin or race, place of origin, language, religion, political or ideological convictions and trade union membership.

Predicted Start Date: January 2020

WorkPlace and Scientific Orientation: The work will be developed at the Neural Basis of Perception, Memory and Decision Laboratory, Coordinated by Miguel Remondes and under his supervision.

Fellow Monitoring Centre: The monitoring Centre works on Tuesday (09:00AM to 01:00PM / 02:00PM to 06:00PM) and Thursday (02:00PM to 06:00PM), at Human Resources of iMM João Lobo Antunes.

Monthly Remuneration: The stipend will be **989,70€** according to the values defined directly by FCT, I.P in the country (<http://www.fct.pt/apoios/bolsas/valores>). The amount will be paid through bank transfer.

Necessary Documents for Applications: - Motivation Letter (English); - Detailed CV; - Master degree Certificate. **The non-compliance with these requirements determines the immediate rejection of the application.**

Evaluation: Applications will be evaluated by a jury composed by Miguel Remondes, Luisa Lopes and Tiago Maia (all PhD's).

Selection Method: Curricular evaluation (30%), Motivation letter (20%), and Interview (50%).

Deadlines and Submission of Applications: The call will be open for 10 working days, **starting on 19th November and ending on 2nd December 2019.** Applications should be sent to iMM Human Resources through the email imm-hr@medicina.ulisboa.pt, indicating the reference of fellowship (mandatory). **The non-compliance with these requirements determines the immediate rejection of the application.**

Communication of Results: The results will be published at <https://imm.medicina.ulisboa.pt/jobs/#results> and posted at the entrance lobby of the Institute.

Lisbon, 4th November 2019

The Executive Director of iMM
Professor Maria Manuel Dias da Mota