

CONV. ID-42/2019 IDIBAPS

1. POSITION OFFERED

1.1. A job is being opened to cover **1 Position of Predoctoral Researcher (R1)** to support the research of **INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS)** at the research project "A Translational Model of Antibody-mediated Synaptic Disease: Symptoms, Neuronal Circuits, and the Mechanisms of Memory Loss and Recovery" Grant Agreement Number: HR17-00149, funded by FUND.BANCARIA CAIXA ESTAL. I PENSIONS, with temporary contract in the following professional category:

Required qualifications and skills:

- Required Education Level: Undergraduate Degree (e.g. physics, math, bioinformatics, bioengineering...).
- Specialty: Master's in a Neuroscience-related.
- Experience:
 - Candidates with a very good track record in their undergraduate degree.
 - Master's in a neuroscience-related discipline and with an interest in cognition, and advanced data analysis techniques are encouraged to apply.
 - Previous experience with neuroscience data analysis or programming (Matlab, Python, etc.) will be highly valued.
- Required Languages: Candidates with good oral and written skills in English will be given preference.

Job description / Tasks to be developed:

This is a unique opportunity for a strongly motivated candidate interested in studying how information is stored long- term in the brain.

- The candidate will develop a set of read-outs to measure how memories are generated, retain and recalled utilizing calcium imaging data and animal behavioral readouts. The behavior is be combined with a cutting-edge freely moving calcium imaging technology (nVista minimicroscopes) to simultaneously monitor the activity of large number of individual neurons distributed over many days. Using our recently established reversible antibody-mediated disruption of NMDA receptor function in mice (Planagumà et al 2015) we will characterize at the behavioral and neural circuit levels, the mechanisms of memory formation and recall during normal and malfunctioning brains.
- The candidate will perform quantitative analyses of large data sets using methods from modern statistical analysis and machine learning.

The project will be developed within collaboration between several investigators in IDIBAPS (Barcelona): *Josep Dalmau, MD, PhD, Jaime de la Rocha PhD, Albert Compte PhD and Pablo Jercog PhD.*

Together, these labs have a strong publication record investigating the neural circuit basis of different types of memory formation mechanisms, and synaptic receptor mediated autoimmune brain pathologies, and they have extended experience in Calcium imaging, electro-physiology, analysis of behavioral/neuronal data sets and computational modeling.

The project is supported by CELLEX foundation and will be developed at IDIBAPS, a public biomedical research institute whose mission is to encourage Systems Neuroscience, translational research, and technological progress in the field of Biomedicine. The candidate will enroll in the Biomedicine PhD program of the University of Barcelona, one of the most exciting cities to develop a broad range of biotechnologies in Europe.

Presentation of applications:

All documents must include the reference code of the job offer (see upper left corner of the call).

- Candidates must enclose a motivation letter (Statement of Research Interest) and their Curriculum Vitae (including 1-2 referees' information).
- Proof of the merits exposed and the degree obtained must also be included in the application.
- The application must include also signed authorization in reference to personal data protection law - European Regulation (UE) 2016/679- (Document attached, Page 3).

Place of submission: (clearly indicating the reference code of the job offer)

1. Delivering it personally to the Dept. of human resources, located on the Esther Koplowitz Centre, C/Rosselló 149, from 10 am to 1 pm from Monday to Friday.
2. Through regular mail, to the address referenced in the previous point.
3. By e-mail to the e-mail address Rrhh.fundacio@clinic.ub.es

Application Deadline: 19/04/2019

1.2. The recruitment will be carried out according to the provisions of Article 15 of the Royal Legislative Decree 1/1995, of 24 March, which approves the text of the law of the Statute of workers, in accordance with the provisions of art. 2 of the Royal Decree 2720/98, of 18 December (BOE of 8 January 1999), law 12/2001, of 9 July (B.O.E. of 10 July) and concordant provisions.

The principle of equal treatment between men and women will be considered, according to article 14 of the Spanish Constitution, the Community Directive of 9 February 1976 and what is foreseen in the agreement of the Council of Ministers of 4 March 2005, which approves the plan for gender equality in the General Administration of the State.

The universal accessibility for disabled persons will be considered according to the second paragraph of Article 1 of the law of December 2 51/2003 of equality of opportunities; 5% of the vacancies are preserved when candidates' pass the selection process and disabilities are proved. Also, compatibility with the tasks associated to the job must be proved so that progressively we reach 2% of all workforces.

1.3. Annual gross remuneration inherent to the job offer object of this call will be fixed on the basis of the experience provided and the skills of the candidates.

1.4. In accordance with Regulation (EU) 2016/679 of 27 April 2016 on the protection of natural persons with regard to the processing of personal data (hereinafter the "Regulation"), we hereby inform you that:

- The party responsible for processing your data is the Institut d'Investigacions Biomèdiques August Pi i Sunyer (hereinafter "IDIBAS"), with Corporate ID No. Q5856414G, and registered address in Barcelona, Carrer Rosselló 149-153. You may contact the Data Protection Manager by sending an email to protecciodades.recerca@clinic.cat or by writing to the Legal Director at Carrer Rosselló 149-153, Barcelona.
- When presenting your candidacy or sending us your CV, your data must be communicated with the aim and purpose of allowing employees at the entity to carry out management and selection processes.
- The information will be used by administrative and employee services in our entity, for their corresponding services, and may be submitted in full or in part to any authorities that, for legal reasons, require this type of information.
- The data provided will be held for a period of 1 year, and in addition once the relationship has been completed the data will be held for the period necessary to comply with legal provisions.
- The data provided may be transferred to a third country or international organisation, where necessary to justify the contract and/or salary of the employee providing the data.
- You have the right to access your data, request rectification of inaccurate data or request the removal of your data. Equally, you have the right to restrict the processing of your data, and you may oppose or withdraw consent for your data to be used in certain circumstances. You may exercise these rights by writing to the Legal Director at Carrer Rosselló 149-153, Barcelona, or by sending an email to protecciodades.recerca@clinic.cat. We also inform you of your right to file a complaint with the Catalan Data Protection Authority (Autoritat Catalana de Protecció de Dades) for any action taken by IDIBAPS that you believe infringes your rights.

Barcelona a 05/04/2019
Marta Fernandez Cufi
Human Resources Manager

I Authorize at:

INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER (IDIBAPS) to treat my personal data for the personnel selection procedure, which will cede it only in these legally enforceable cases, in accordance with the provisions of European Regulation (UE) 2016/679, and corresponding regulations that develop it.

Name:

Signed:

Barcelona,