



HR EXCELLENCE IN RESEARCH

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Neuroimaging Researcher position at the Barcelonaβeta Brain Research Center

About the employer

The Barcelonaβeta Brain Research Center (BBRC) is a research center dedicated to the prevention of Alzheimer's disease and the study of cognitive functions affected in healthy and pathological aging. It was created in 2012 by the Pasqual Maragall Foundation, with the support of the Pompeu Fabra University.

The mission of the BBRC is to provide innovative solutions to decipher and prevent biological changes and cognitive dysfunction associated with neurodegenerative diseases. Due to the aging of the world population, these diseases constitute a global challenge, since for example, dementia can reach epidemic levels in 2050, with a forecast of more than 150 million people affected, if is not found a way to prevent its appearance and development.

The BBRC received the HR Excellence in Research award (HRS4R) granted by the European Commission; a recognition that shows its adherence to the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Research Staff. The center offers a **stimulating and favorable working environment** in accordance with the Charter and Code, which describe the rights and responsibilities of researchers and their employers, and contributes to the **creation of a transparent, attractive and open ecosystem** at international level.

Pasqual Maragall Foundation, Pompeu Fabra University and "la Caixa" Foundation are permanent members of the BBRC Board. The center is affiliated and located in the Ciutadella Campus of the Pompeu Fabra University of Barcelona, in a building inaugurated in 2016. The BBRC headquarters has excellent technical facilities, including a 3TMR scanner dedicated to research, and spaces for conducting Clinical Trials and EEG. State-of-the-art scientific facilities, effective management and continuous high-standard peer-review evaluation are the BBRC core proceedings to ensure achieving world-class research results.

BBRC is also part of the Barcelona Biomedical Research Park (PRBB), a large research facility that hosts other seven different research institutions related to biomedical research, including the Center for Genomic Regulation (CRG), the Hospital del Mar Medical Research Institute (IMIM), the Department of Experimental and Health Sciences of the Pompeu Fabra University (CEXS-UPF), the Institute of Evolutionary Biology (IBE CSIC-UPF), the Barcelona Institute of Global Health (ISGlobal) and the Barcelona site of the European Molecular Biology Laboratory (EMBL), among others, in a multidisciplinary, collaborative and stimulating international environment in close contact with a clinical setting, thus conducive to translational research.

For more information see: www.fpmaragall.org and www.barcelonabeta.org



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About the project

PMP-Degesco is an ISCIII IMPaCT project aiming to validate a precision medicine tool based on online cognitive evaluation, genetic risk stratification and blood-based biomarkers for detecting preclinical Alzheimer's Disease. The project will build on a Spanish-wide health network focused on identifying people at risk of Alzheimer's disease (AD) to provide risk-lowering opportunities by addressing modifiable risk factors. Cognitive, genetic, biomarker and imaging platforms will be created. In particular BBRC will be leading the MRI core in collaboration with Fundación CIEN. An MRI protocol will be implemented in 12 imaging sites and consist of core (T1w, FLAIR, T2w, T2*) and advanced (rs-fMRI, DTI, ASL, SWI) MRI sequences. MRI collection, quality control and processing will be centralized at the existing neuroinformatics platform at BBRC.

About the job

BBRC is looking for a full-time position as a researcher (MS.c. or Ph.D. level) to coordinate the acquisition of neuroimaging data in the PMP-DEGESCO project and analyze the multicenter neuroimaging datasets. The candidate will work within the BBRC NeuroImaging group under the supervision of Dr. Juan Domingo Gispert.

Main Responsibilities

The responsibilities for this position include:

- Set-up the neuroimaging network of the PMP-DEGESCO project: ensuring the correct implementation of the neuroimaging protocol
- Quality control of the MRI scans. Providing corrective feedback to the imaging sites, if needed.
- Analyzing structural, functional, and diffusion-weighted MRI data using standard neuroimaging analysis suites (SPM, FSL, Freesurfer, etc...)
- Quality control of the quantitative outcomes of the post-processing pipelines
- Leading the neuroimaging research aspects of the project. Liaise with project investigators.
- Participating in periodic project and group meetings

Required qualifications and professional experience

- Degree in Physics, Engineering or related fields. Holding a PhD will be favorably valued
- Strong expertise in analyzing MRI scans with standard tools (SPM, Freesurfer, FSL, etc...)
- General knowledge of clinical and biological aspects of Alzheimer's Disease and related neurodegenerative disorders
- Proficient in Spanish and English
- It is desirable for the candidate to have experience in drafting research manuscripts and presenting research results in scientific conferences

Personal skills

- Being a team player
- Proactive attitude
- Flexibility to work within a multidisciplinary team
- Capacity to work independently and communicate efficiently
- Interest in joining a non-profit organization with a mission of high social impact.



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We offer

- Starting date: Immediately.
- Full-time position, 38 hours weekly.
- Salary will depend on experience and will be in accordance to BBRC's salary scales.
- Hybrid working model (on-site + teleworking).
- The Foundation offers an extended vacation period and the possibility of benefit from flexible working hours.
- Possible to pursue Scientific career / PhD Thesis.
- Join a team of highly specialized staff in neuroimaging analysis and MRI physics.

We offer and promote a diverse and inclusive environment and welcomes applicants regardless of age, disability, gender, nationality, ethnicity, religion, sexual orientation or gender identity.

In the foundation we also care about developing your professional career so you will participate in internal and specific training for your job, promotion opportunities and development of your professional career.

Application process

To apply, please submit a single PDF file containing the following:

- 1) Cover letter addressed describing research interests and relevant background
- 2) CV
- 3) The names of up to three individuals who could provide reference letters. All files or inquiries should be submitted electronically to: talent@barcelonabeta.org

Subject: Neuroimaging Researcher

This call is financed by the Instituto de Salud Carlos III under the European funds of the Recovery, Transformation and Resilience Plan - Funded by the European Union - NextGenerationEU. The file code is PMP22/00022, by virtue of Resolution of the Directorate of the Instituto de Salud Carlos III, O.A., M.P. of December 21, 2022, awarding grants for Research Projects in Personalized Precision Medicine of the Strategic Action in Health 2021-2023, in the framework of the PERTE de Vanguardia Sanitaria and charged to the European funds of the Recovery, Transformation and Resilience Plan.

We inform you that your personal data will be part of a file which Pasqual Maragall Foundation and Barcelonaβeta Brain Research Center is responsible for, in order to manage the job offer you have requested. Once the process is complete, the data processed will be erased.

You have the right to exercise the rights of access, rectification, cancellation and opposition recognized in Regulation (EU) 2016/679 (General Data Protection Regulation), to be addressed to the Pasqual Maragall Foundation and Barcelonaβeta Brain Research Center: Wellington Street 30, 08005 Barcelona.



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