

Doctoral Position in the Neuroimaging Research Group in the Barcelonaβeta Brain Research Centre – Pasqual Maragall Foundation, Barcelona, Spain

Job Summary:

Barcelonaβeta Brain Research Center (BBRC) invites applications for a full-time graduate student position within the context of the AMYPAD project, as part of the Neuroimaging Research Group from the Alzheimer's Prevention Program.

The project:

AMYPAD is a European project to establish the true value of amyloid PET in a diagnostic and prognostic setting (<http://www.amypad.eu>). This 5-year project is a collaboration between industry (General Electric Healthcare, Piramal, Janssen, IXICO) and academic partners funded by the IMI-2 program. AMYPAD will recruit 900 memory clinic patients and 3100 preclinical or prodromal AD subjects from natural history cohorts across Europe. Up to 50% of subjects will undergo dynamic scanning and have repeated imaging, for a total of 6000 amyloid PET scans. Main study goals include 1) diagnostic impact including patient-reported outcomes and healthcare resource utilization, 2) prognostic value and enrichment of treatment trials, and 3) quantitative assessment of treatment effects. In close collaboration with the European Prevention of Alzheimer's Dementia (EPAD; www.ep-ad.org) project, the cohorts will be followed with careful longitudinal monitoring and MRI to determine (surrogate) outcomes of cognitive decline and neurodegeneration. The consortium brings together a world-class team of highly synergistic partners to form a pan-European network including the most active PET sites. This will ensure effective access to patients and also maximize exposure to technical knowledge and disease modelling. In addition, AMYPAD will develop expertise in image data collection, including β-amyloid PET and MRI data from the EPAD project.

About the employer:

Barcelonaβeta Brain Research Center

The Barcelonaβeta Brain Research Center (BBRC) is a new research center, constituted by the Pasqual Maragall Foundation. The goal of BBRC is to become an internationally recognized centre of excellence in our understanding of age-related cognitive disability in order to provide practical solutions to the global challenges posed by the world's aging population. Our goal will be achieved by championing primary and secondary prevention programs for Alzheimer's disease and other related neurodegenerative disorders, the study and promotion of healthy aging, and the research of the basic physiological mechanisms of cognitive functions affected by healthy or pathological aging such as memory, learning and decision-making, among others. The vision of BBRC is to provide the society with distinct and innovative solutions for age-related cognitive disability by leveraging these complementary research programs in order to attain a multidisciplinary comprehension of the aging process and the pathophysiology of neurodegeneration. At present BBRC deploys its research mission through two Research Programs, the Alzheimer's Prevention Program and the Memory Program.

Pasqual Maragall Foundation, Pompeu Fabra University and "La Caixa" Foundation are permanent members of the BBRC Board. International competitive recruitment, 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 affiliated and located in the Campus Ciutadella of the Barcelona Pompeu Fabra University, the building contains excellent technical facilities, including a research-dedicated 3T MR scanner, Clinical Trials facilities, EEG and Eye Tracker labs.

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

Principal Responsibilities:

In collaboration with other AMYPAD partners, the responsibilities for this position includes:

- Develop technical procedures to enhance amyloid PET quantification;
- Modelling of amyloid PET data in disease progression models;
- Participate in analysis and publication of results;
- Participate in regular meetings with our partners throughout Europe;
- Engage in the management of the project;

Required Qualifications:

- MSc in Engineering, Physics, Neuroscience or any other related field
- Experience in analysis of medical brain images
- Excellent communication and writing skills in English;
- Ability to think independently and work collaboratively.

Benefits:

- Starting date: Sept 2018.
- Possibility of undergo a PhD programme
- The position is scheduled initially for three years (open to renewal).
- Salary will depend on experience.

Additional Information:

To apply, please submit a single PDF file containing the following: 1) Cover letter 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: rh@barcelonabeta.org

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Deadline for submitting applications: July 31st 2018.

We inform you that your personal data will be part of a file which Pasqual Maragall Foundation 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 Law 15/1999, to be addressed to the Pasqual Maragall Foundation: Wellington Street 30, 08005 Barcelona