

## MRI Analyst – AD Prevention Program for the Barcelonaβeta Brain Research Centre Foundation

### About the employer

The Barcelonaβeta Brain Research Center (BBRC) is a research center, constituted by the Pasqual Maragall Foundation. The goal of BBRC is to develop the understanding of age-related cognitive disability in order to provide practical solutions to the global challenges posed by the world's aging population. This 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 mechanisms affected by healthy or pathological aging. The vision of BBRC is to provide the society with distinct and innovative solutions for age-related cognitive disability in order to attain a multidisciplinary comprehension of the aging process and the pathophysiology of neurodegeneration. At present BBRC deploys its research mission through the Alzheimer's Prevention Program.

Pasqual Maragall Foundation, Pompeu Fabra University and "la Caixa" 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 and Clinical Trials facilities.

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.barcelonabeta.org](http://www.barcelonabeta.org) and [www.fparagall.org](http://www.fparagall.org)

### About the job

BBRC is looking for a MRI Analyst. This is a full-time position and the person selected will join the AD Prevention Program. The MRI analyst will report to the director of the AD Prevention Program.

## Main Responsibilities:

The Neuroimaging Data Analyst responsibilities will include, but are not limited to:

- Implement and support statistical analyses and processing pipelines/scripts for multimodal neuroimaging analysis, including resting-state and task-based fMRI, DTI and volumetric data.
- Managing and cleaning data, querying databases, and generating reports using the existing XNAT neuroimaging database at BBRC.
- Maintain quality control and integrity of neuroimaging data by developing, implementing and overseeing data entry and QC protocols.
- Provide programming and analysis support for the AD Prevention Program members.
- Write technical and user documentation and assist with the preparation of scientific reports and publications.
- The successful candidate will need to develop a good understanding of neuroimaging methods and hypothesis in the various research lines of the AD Prevention Program.

## Required qualifications:

- B.A., B.S. or equivalent with background in neuroscience, computer science, engineering or related fields. Masters or PhD degree preferred but not required. 2+ years of prior technical experience.
- Quantitative and extremely proficient with multiple neuroimaging analysis platforms (e.g. FreeSurfer, SPM, FSL, AFNI, etc.).
- Strong programming skills and comfort with diverse computing environments required.
- Strong background in statistics and statistical software scripting.
- Strong background creating scientific figures and writing technical scientific reports.
- Strong interpersonal skills and a high level of organization with careful attention to detail are absolutely required. This position requires a high degree of motivation and self-sufficiency, although extensive training and supervision will be provided.
- Experience with neuroimaging and behavioural databases.

## Personal skills

- Self-initiative
- Must possess strong interpersonal skills and work effectively with a multidisciplinary team.
- Ability to think independently and work collaboratively (empathic and focused team-worker).
- Organizational skills: ability to initiate, manage and direct multiple tasks and projects is necessary.
- Demonstrate the ability to solve problems and reach objectives.
- Interest in joining a non-profit organization with a mission of high social impact.
- Strong oral and written communication skills.

### We offer

- Full-time position.
- Salary will be in accordance with qualifications and experience.
- Start date: January/February 2020

### Application process:

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](mailto:rh@barcelonabeta.org)

**Subject: MRI Analyst – AD Prevention Program**

**Deadline: December 31th 2019**

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.