



Postdoctoral candidate interested in applying for a MSCA Postdoctoral Fellowship in

Preclinical MRI:

Are you a postdoctoral researcher thinking about your next career move? The Marie Skłodowska-Curie Postdoctoral Fellowships are a great option if you are an experienced researcher looking to give your career a boost by working abroad.

[Institute of Neurosciences](#) of the [University of Barcelona](#) allows you to work in a first class research environment while benefitting from an attractive salary to cover living, travel and family costs.

Group and project information

Applicants will be integrated into the research group "[Brain Connectivity and Neuroimaging Lab](#)"; (P.I. Guadalupe Soria).

The Brain Connectivity and Neuroimaging Lab (BCN lab) is a multidisciplinary team of enthusiastic researchers investigating how brain connectivity changes in the different phases of neurodegeneration, particularly in its early stages, aiming to develop more effective therapies. Additionally, we are deeply interested in understanding the complex brain circuitry mechanisms underlying cognitive reserve and brain resilience, with the aim of enhancing them and potentially mitigate the prevalence of age-related dementia. To bridge the gap between MRI-based brain connectivity and neurobiology, we employ animal models like the TgF344-AD rats. This approach allows us to collect extensive data, in the same subjects, that covers behavioral, functional, and structural connectivity, as well as neurochemical insights, with particular emphasis on understanding neuroinflammatory and neuroplasticity processes.

Requirements for candidates:

Skills/Qualifications:

- PhD or equivalent (Recognised Researcher R2) in biomedical engineering, physics, neuroscience, or related field.
- Prior practical involvement in experimental neuroscience techniques conducted within living organisms is valued.
- Proficiency in coding languages like Python, R, or MATLAB, commonly employed in image analysis, will be highly appreciated. Familiarity with other pertinent programming languages or software tools is also beneficial.





- Knowledge of brain imaging techniques (e.g., functional MRI, DWI) and concepts in systems neuroscience
- Ability and motivation to work independently as well as collaboratively in an interdisciplinary team.
- Proficiency in spoken and written English is necessary.
- Additionally, having authored at least one published preprint or article as the primary contributor is expected.

Languages:

English: Excellent

Specific Requirements:

- Candidates must fulfilled eligibility MSCA criteria

Working conditions:

- Full time temporary contract
- Gross salary of about € 50,000
- Duration: ranging from 12 to 36 months depending on the typology of the fellow
- Starting date: flexible from beginning of May 2025

Support for candidates

The [Institute of Neurosciences](#) and the [International Research Projects Office](#) at the University of Barcelona could offer you:

- Personalized support on the application
- Personalized mentoring if pre-selected (valued in 3000 euros)
- Support on other national calls such as [Beatriu de Pinós](#) and [Junior Leader](#)

How to apply

Please submit your CV to: Guadalupe Soria (gsoria@ub.edu); Reference: MSCA PF Candidate)

Deadline: 15/06/2024

