

POST GRADUATE FELLOWSHIP ON “Data analysis techniques to measure dendritic spine and presynaptic vesicle morphology changes due to small graphene oxide flakes interfacing: developing novel algorithms and simulations” - NEUROSCIENCE AREA- ref. Prof.a Laura Ballerini

SISSA offers an undergraduate fellowship by means of a selection based on academic qualifications only.

Title of the project: Data analysis techniques to measure dendritic spine and presynaptic vesicle morphology changes due to small graphene oxide flakes interfacing: developing novel algorithms and simulations.

Period: 4 months starting from October 2022

Amount of the fellowship: € 1000,00 net per month.

Research activity:

Functional consequences of stress-induced structural plasticity focusing on synaptic plasticity in the amygdala and graphene oxide impact on structural changes in dendritic spines associated with anxiety. Molecular biology techniques, such as microscopy, immunofluorescence, histology/staining and dissecting techniques are required together with knowledge in Programming languages (Python and R program).

Requirements:

Master's Degree in Genetics and Molecular Biology, experience in molecular biology techniques, such as microscopy, immunofluorescence, histology / staining and dissection techniques knowledge of programming languages (Python and R program).

Candidate possessing a Ph.D Degree are not eligible.

Funding: first 3 month UA.00.NEUR.NB21, last month R_ALTR-INT_NEUR_Ballerini_0547

Applications and all the required documents must be sent by 10th August 2022, 01:00 p.m. through the online procedure available at the following link:
<https://pica.cineca.it/sissa/borse-post-ballerini-grafene/domande>

For further information please contact phd@sissa.it