



An Early Stage Researcher position available in the Marie Skłodowska-Curie actions Innovative Training Network "SAND" (H2020-MSCA-ITN-860035)
Secretion, Autophagy and their Role in Neurodegeneration

Project: Modulation of Endoplasmic Reticulum (ER) proteostasis in neurodegenerative diseases and its impact on secretion and autophagy

Background to the project: SAND is a Marie Skłodowska Curie Innovative Training Network addressing modulation of ER proteostasis in neurodegenerative diseases.

Research project

Protein misfolding is the cause of numerous diseases including neurodegenerative diseases such as Parkinson's disease, Alzheimer's disease and others. This results in Endoplasmic reticulum (ER) stress. ER stress signaling pathways can contribute to neurodegenerative disease. This project aims to design, develop and test new drugs capable of selectively modulating the ER stress signaling pathways, particular the IRE1 pathway, and in this way to modulate adaptive signaling pathways. The project will involve a combination of computational work to design and optimize such small molecule modulators as well as assay design and testing at both protein and cellular levels, Experience in biochemical and cell biology based assays and/or computational drug development is an advantage.

Work has already been done on the project and the goal of this 12 month position is to continue the work and complete the project. The project will involve cell biology and molecular biology approaches; therefore experience in biochemical and cell biology based assays is required.

Career Stage

Early Stage Researcher (ESR) or 0-4 years since Bachelors or Masters degree

Benefits and salary

This position is for a period of 12 months. The researcher will work in a small start-up company, Cell Stress Discoveries Limited. The MSCA programme offers a highly competitive and attractive salary and working conditions. The successful candidate will receive a salary in accordance with the MSCA regulations for early stage researchers.

Eligibility:

Candidates will be required to meet the Marie Skłodowska-Curie Early Stage Researcher eligibility criteria: (<http://ec.europa.eu/research/mariecurieactions/>). At the time of appointment candidates must have had less than four years full-time equivalent research experience and must not have already obtained a PhD. Additionally, they must not have resided in the host country (Republic of Ireland) for more than 12 months in the three years immediately before the appointment. Candidates should be proficient in written and spoken English.

Requirements:

- A Masters Degree in a relevant discipline or excellent Bachelor degree
- Strong command of written and spoken English
- Strong ability to work as part of a team
- Experience in biochemical and cell biology based assays and/or computational drug development is an advantage
- Willingness to travel and stay abroad (as part of the ITN programme the candidate will be required to undertake trans-national mobility)

Application procedure:

Applications should include:

1. A cover letter stating the applicant's motivation for her/his application for this particular project.
2. A full CV including all academic qualifications, achievements

The application should be completed and emailed to Cell Stress Discoveries at info@cellstressdiscoveries.com Monday 5 September 2022.

Shortlisted eligible applications will be interviewed in September 2022. Successful applicants will need to meet the MSCA eligibility criteria and demonstrate English language proficiency, and will be expected to start as soon as possible, but by 15 October 2022 at the latest.