

Postdoctoral Research Associate in cellular and network neuroscience (Available September 2021- 31st August 2024 fixed term contract)

College of Health and Life Sciences

Location: Birmingham

Salary: £31k-£35k p.a.

Grade:

Contract Type: Fixed term

Basis: Full time.

Closing Date: September 15th

Interview Date: w/c September 20th

Position available from October 1st to August 31st 2024

Reference: (*this is the Vacancy Manager reference which will be added for you*)

We are seeking an enthusiastic and ambitious postdoctoral research associate to pursue a project to investigate network activity in 2D and 3D cortical networks derived from human induced pluripotent stem cells (iPSCs).

The PDRA will use high resolution MEA and calcium imaging together with opto- and chemogenetic approaches to determine functional aspects of human cortical network activity, plasticity and information processing.

The PDRA will work in the groups of Prof. Rhein Parri and Dr. Eric Hill in the College of Health and Life Sciences. The Parri group has a longstanding interest in control of neuronal activity and synaptic modulation, and particularly the role of glial and other cells.

Applicants should have a PhD in Neuroscience/hiPSC neuronal culture or a related field, with experience of electrophysiological recordings or calcium imaging. A knowledge of cortical synaptic or network function would be an advantage.

The PDRA will be part of an EU- H2020 funded FET OPEN project “Neuronal networks from cortical human iPSCs for Machine Learning Processing (NeuChiP)” (www.neuchip.eu) and will become part of a team of cross-disciplinary researchers team across Europe. The PDRA will interact with iPSC, mathematics and machine learning experts at Aston and Physicists, mathematicians and neuromorphic computing experts in the other partners. The position will be based in the College of Life and Health Sciences at Aston University Birmingham and will report to Prof. Rhein Parri, and Dr. Eric Hill.

For further information about this position, please contact Prof. Parri +44 (0)121 204 4049, (parrihr@aston.ac.uk) or Dr. Hill +44 (0)121 204 5040 (hillej@aston.ac.uk).

Please visit our website <http://www.aston.ac.uk/jobs> for further information and to apply online. If you do not have access to the internet, telephone 0121-204-4500 and leave your name and address quoting **reference number: R210218**

Aston University is an equal opportunity employer and promotes equality and diversity in all aspects of its work. We are committed to the principles of the Athena SWAN Charter

<http://www.ecu.ac.uk/equality-charter-marks/athena-swan/>, recognised by a silver award, and we are a Disability Confident Committed Employer Level 1: Disability Confident Committed - GOV.UK. We also strive to have robust inclusivity strategies in place, including race and sexual orientation, to encourage colleagues to have the confidence and freedom to be themselves in the workplace. For more information, visit: <https://www2.aston.ac.uk/about/inclusive-aston>

As users of the disability confident scheme, we guarantee to interview all disabled applicants who meet the minimum criteria for the vacancy.

Please note: Redeployees will be given priority consideration for vacancies.

Please visit our website <http://www.aston.ac.uk/jobs> for further information and to apply online.