



OPPORTUNITY

Postdoctoral Research Associate

Reference: R220788.

Grade: 8

Salary: £37474 per annum, pro rata

Contract Type: Fixed Term (17 months)

Basis: Full Time

Job description

Job Purpose:

The College of Health and Life Sciences is looking to appoint one Research Fellow on a fixed term project (17 months) entitled Scaff-Net funded by an EPSRC - New Horizons award. The project will develop methods and approaches to print scaffolds to enable growth of 3D neuronal networks. Scaffold will be printed onto multielectrode arrays to enable electrophysiological and fluorescence activity recording.

The fellow is expected to generate breakthrough ideas in the assigned area of research, as well as to carry out research in line with the project plan.

Main duties and responsibilities

- ▶ Develop methods and design 3D scaffolds for printing using two photon polymerisation and other technologies.
- ▶ Differentiate, grow and maintain hiPSC derived cortical cultures and organoids.
- ▶ Record electrophysiological activity from MEAs and fluorescence calcium activity from 2D and 3D cultures.
- ▶ To be the lead contributor to publications of research outcomes in high impact journals and major international conferences. To lead the delivery of reports associated with assigned projects.
- ▶ To contribute to research initiatives with colleagues in and beyond the College as appropriate.
- ▶ To engage in training and professional development programmes in the University consistent with personal needs and aspirations and with the strategic goals of the Institute.
- ▶ To support the development of further research proposals. .
- ▶ To assist in the supervision of PhD students and MSc research projects.
- ▶ To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.
- ▶ Flexibility to work out of hours and weekends.

Additional responsibilities

- ▶ Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities to develop themselves and support the development of others.
- ▶ Ensure and promote the personal health, safety and wellbeing of staff and students.
- ▶ Carry out duties in a way which promotes fairness in all matters and which engenders trust.
- ▶ Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.

Person specification

	Essential	Method of assessment
Education and qualifications	<ul style="list-style-type: none"> • 1st class or upper second degree in a Biological science or Chemistry related subject or equivalent • PhD in bioprinting, bioengineering, regenerative medicine, or relevant area. 	Application form
Experience	<ul style="list-style-type: none"> • Expertise in 3D printing or bioprinting. • Expertise in hiPSC and neuronal cell culture. • Lentiviral or AAV transduction of Genetically encoded calcium indicators • Immunohistochemistry and confocal image analysis. • Experience with quantitative data analysis applications, including neuronal morphological analysis packages. • Authoring scientific publications and conference presentations. 	Application form and interview
Aptitude and skills	<ul style="list-style-type: none"> • Creative problem-solving skills. • Excellent English language communication skills to relay work in spoken and written media. • Ability to contribute to and coordinate collaborative project reports and deliverables. 	Application form and interview

	Desirable	Method of assessment
Education and qualifications	<ul style="list-style-type: none"> • PhD in an area of cellular neurophysiology, neural stem cell biology. 	Application form

	Desirable	Method of assessment
Experience	<ul style="list-style-type: none"> • Experience of interdisciplinary collaboration. 	Application form and interview

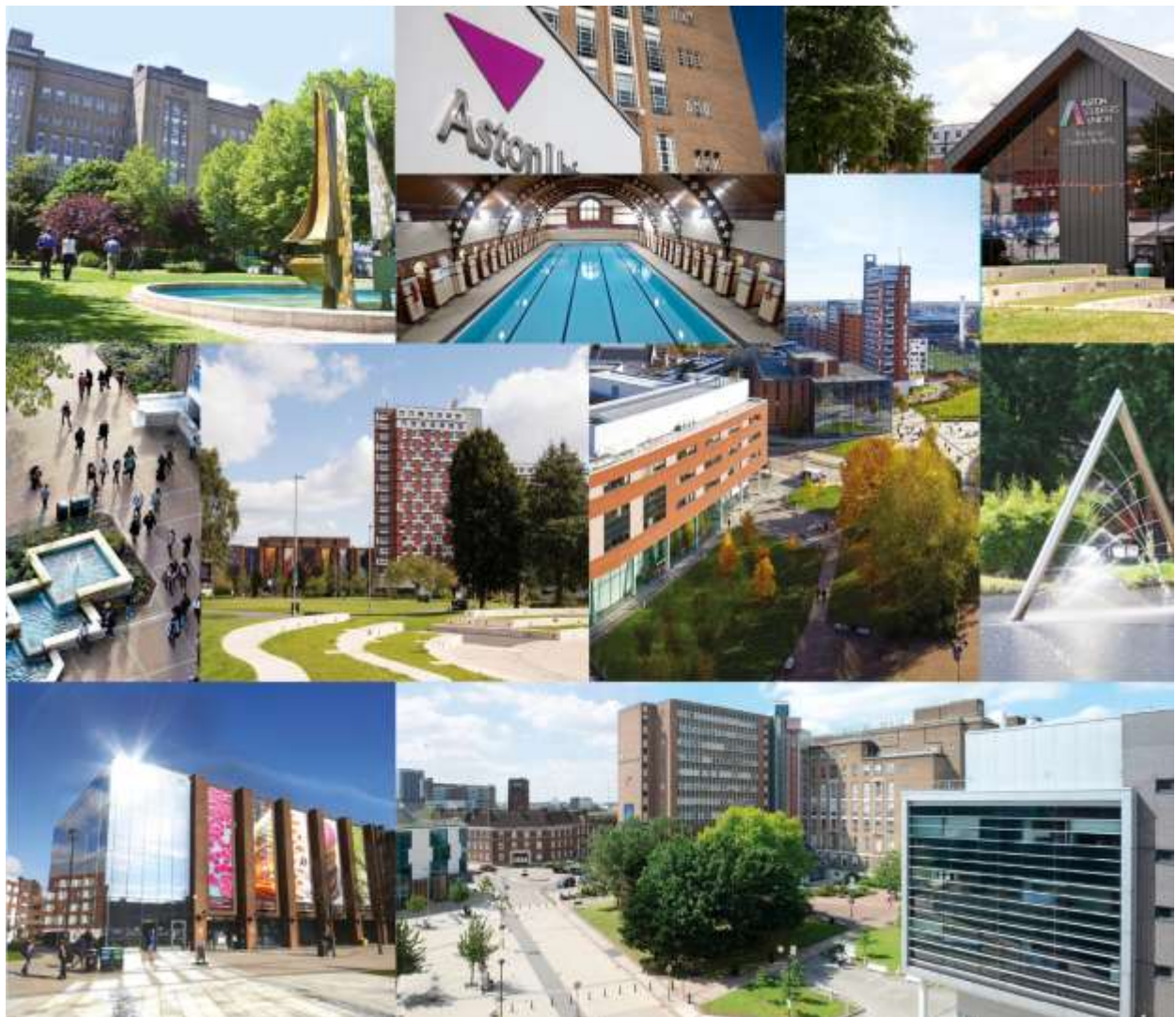
How to apply

You can apply for this role online via our website <https://www2.aston.ac.uk/staff-public/hr/jobs>.

Applications should be submitted by 23.59 on the advertised closing date.
All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted.

If you require a manual application form then please contact the Recruitment Team via jobs@aston.ac.uk.



Contact information

Enquiries about the vacancy:

Name: Rhein Parri

Job Title: Professor, Aston Pharmacy School

Email: h.r.parri@aston.ac.uk

Enquiries about the application process, shortlisting or interviews:

Recruitment Team via jobs@aston.ac.uk or 0121 204 4500.

Additional information

Visit our website <https://www2.aston.ac.uk/staff-public/hr> for full details of our salary scales and benefits Aston University staff enjoy

Salary scales: <https://www2.aston.ac.uk/staff-public/hr/payroll-and-pensions/salary-scales/index>

Benefits: <https://www2.aston.ac.uk/staff-public/hr/Benefits-and-Rewards/index>

Working in Birmingham: <https://www2.aston.ac.uk/birmingham>

Employment of Ex-Offenders: Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

Eligibility to work in the UK:

Post-Brexit transition period / EU Settlement Scheme

The post-Brexit transition period ended on 31 December 2020. If you are an EU/EEA citizen and you were a resident in the UK before 31 December 2020, you and your family members (including non-EU citizens need to apply to the EU Settlement Scheme to continue to live, work and study in the UK beyond 30 June 2021. The deadline for applying to the EU settlement scheme is 30 June 2021. You can apply via the Government webpage <https://www.gov.uk/settled-status-eu-citizens-families>
Irish Nationals do not need to apply for settlement as they retain the right to work in the UK.

New immigration system for EU/EEA and Swiss Nationals who were not resident in the UK before 31 December 2020

A new immigration system has been introduced for people arriving in the UK from EEA countries with effect from 1 January 2021. In addition to those who have always required a visa, EU citizens moving to the UK to work will need to get a visa in advance. You can find more information on the following website. Candidates should check their eligibility to enter or remain in the UK in advance of making any job application via the UKVI website <https://www.gov.uk/browse/visas-immigration/work-visas>. Before applying you should ensure that you meet the requirements, including meeting the English Language requirements. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful.

If you require a visa to work in the UK the most common types of visa are:

Skilled Worker Visa

<https://www.gov.uk/skilled-worker-visa>

Global Talent Visa

If you are a leader or potential leader in one of the following fields you may be eligible to apply for a Global Talent Visa:

- Academia or Research
- Arts and Culture
- Digital Technology

Please click the following link for further information and to check your eligibility for this visa.

<https://www.gov.uk/global-talent>

Equal Opportunities: Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form. Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name.

Data Protection: Your personal data will be processed in compliance with the Data Protection Act 2018 and the General Data Protection Regulation ((EU) 2016/679) ("GDPR"). The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <https://www2.aston.ac.uk/data-protection>. Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.

Full details of our terms and conditions of service and associated policies and procedures are available online at <https://www2.aston.ac.uk/staff-public/hr/policies>

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gets real.**