University of Liverpool

TENURE TRACK FELLOW/LECTURER/SENIOR LECTURER IN PROTEOMICS

Job Ref: 011132

Faculty: Health and Life Sciences, Institute of Integrative Biology, Department of Biochemistry

Location: University Campus

Grade: 8/9

Salary: £40,792 - £65,362 pa

Hours of Work: Full Time

Tenure: Permanent

Shortlisting and interview arrangements are the responsibility of the recruiting Department. Please contact Tina Lewis on 0151 795 4406 email: tina.lewis@liverpool.ac.uk for all enquiries.
UK leader
in social mobility.

Russell Group
Member of the Russell Group.

At the forefront of innovation and discovery.

Nobel Laureates
Associated with nine Nobel Laureates.

Investing
in our campus.

Global links
More galleries and museums than any UK city outside of London.

33,000
33,000 students, 7,500 of whom travel from all over the world to study here.

Affordable
Based in the 2nd most affordable UK city.

Birthplace of The Beatles and home to two Premier League Football clubs.
We are looking to appoint a Tenure-track Fellow, Lecturer or Senior Lecturer with expertise in proteomics to join our world-leading Centre for Proteome Research (CPR; https://www.liverpool.ac.uk/cpr/) in the Institute of Integrative Biology (IIB) at the University of Liverpool. We have a vibrant research community with exceptional research infrastructure and facilities that addresses biological questions of importance across diverse organisms and scales. We are now looking to strengthen our team of scientists in the Centre for Proteome Research, and seek to encourage applications from researchers in the field who both apply and develop proteomics-based methodologies.

You should demonstrate a strong research portfolio and evidence of high quality publications. Technological know-how, and the application of that knowledge to address fundamental biological questions is key. With support, you will be expected to develop both your own research program and collaborate with colleagues across the Institute and more broadly across the University. Application of your technical expertise should be in one of several broad areas of interest to the Faculty, including, but not limited to: systems biology, anti-microbial resistance, biomarker identification, environmental biology/toxicology, evolutionary biology, synthetic biology, food security, bioenergy, industrial biotechnology, diagnostics and drug discovery. Our vision is to make the University of Liverpool a leader in multi ‘omics and systems biology; the CPR is a key component of this endeavour working alongside academic leads in the Centre for Genome Research (CGR), the Computational Biology Facility (CBF) and the nascent Centre for Metabolomics Research. The intention is that this role is filled by someone with the drive to promote our research culture and the activities of the University, engaging with a range of internal and external collaborators and users to achieve this objective.

The CPR additionally operates as a shared research facility under the auspices of the Technology Directorate; the ability to work with end-users across a broad science base (academic, clinical, industrial) and a desire and willingness to develop and manage the facility is essential.

The Institute of Integrative Biology (IIB) is one of five research-intensive Institutes within the Faculty of Health and Life Sciences located at the heart of a thriving biomedical and environmental science campus. Our academic staff contribute to biological, biomedical and veterinary science undergraduate curriculums through close links with the Faculty’s undergraduate teaching institutes (Institute of Life and Human Sciences; Institute of Clinical Sciences; Institute of Veterinary Science). Our engagement across a range of scientific areas supports the delivery of research-driven teaching to our undergraduate and postgraduate communities.

Our doctoral programmes, which are funded by UK research councils including BBSRC and NERC and other national governments as well as companies and medical charities, attract an annual intake of around 40 PhD students. We also collaborate with Biological Sciences and Environmental Sciences staff at the XJTLU campus to co-supervise PhD students, and recruit postgraduate students to international programmes linking us with RIKEN (Japan), A*STAR (Singapore), Soleil (France), several Spanish institutions, and several Thai universities, contributing to our growing international culture.

There are 68 academic colleagues in the IIB, including 31 Professors, 9 independent research fellows, ~100 staff on permanent and fixed-term research contracts, ~100 postgraduate students and 28 technical staff. We are administered by 18 professional services staff providing management, financial, research and clerical support.
With a research income of ~£9.2m annually, our scientists deliver ground-breaking research which spans the complete range of biological scales from genes and genetic regulation through proteins, whole organisms, populations and ecosystems. We benefit from state-of-the-art facilities in genomics, proteomics, metabolomics and computational biology and expertise in applying these techniques to meet societal challenges in healthcare, bioscience, agriculture and environmental science.

The Institute is organised into three Departments (led by Heads of Department) with four cross-cutting research themes. Particular emphasis is placed on breaking down disciplinary barriers and on encouraging the development of thematic networks of active research groups, both within IIB, but also extending externally into environmental science, chemistry, mathematics and veterinary and clinical medicine.

**Vision**

Over the next five years we aim to:

- Ensure that our research will have a positive impact on society.
- Continue to grow our discovery science and translational research by working more closely with industry, the public sector and other higher education partners.
- Continue to support and grow our postgraduate community, developing the next generation of research scientists.

**Research and Partnerships**

Within the IIB there are currently ~160 active PI research grants and contracts totalling more than £39.7 million from a range of sources, including the UK Research Councils, UK research charities including the Wellcome Trust, British Heart Foundation and Cancer Research UK, the European Commission, the UK Department for Environment, Food and Rural Affairs and other Government Departments, along with links to industrial partners such as Unilever PLC. Our Research and Finance Team provide the focal point for all research administration including pre- and post-award, recruitment and progression of research students, and external liaison. Where appropriate, liaison with specialist IP, legal and business-support teams is provided by the University's central services: Research Support Office, Research Policy, and Business Gateway.

We also have an active programme promoting impact and knowledge exchange activities, supported both locally by the IIB Research Hub and by centralised University infrastructure.

**Facilities**

The research activities of the Institute are housed mainly within the Biosciences Building, which comprises core laboratories for cell imaging, genomics, proteomics, insect, plant and microbial culture, an aquarium and NMR spectroscopy. Some of these laboratories also provide Shared Research Facilities for the Faculty, supported by the University’s Technology Directorate. Together, this provides a large-scale, interactive research environment for life and health sciences.
Our core research facilities include:

- The Centre for Genomic Research acting as collaborative core UK sequencing facility for the wider scientific community, with expertise in high-throughput cell isolation to single cell level, sequencing platforms (2nd and 3rd generation) and informatics infrastructure for genome analyses.
- GeneMill Synthetic Biology Lab for gene editing and synthesis.
- Centre for Proteome Research housing state-of-the-art instrumentation for qualitative and quantitative proteomics, MS imaging and MS-based structural protein analysis.
- Centre for Cell Imaging housing both confocal and wide-field luminescence microscopes
- Computational Biology Facility promoting the interaction and coordination of the community of computational and experimental biologists in Liverpool.
- Barkla X-ray Laboratory of Biophysics with in-house X-ray crystallography and SAXS capability.
- NMR Centre for Structural Biology and Metabolomics for structural and metabolite analysis in liquid and solid state

Other facilities include:

- Henry Wellcome Laboratory of Mammalian Behaviour and Evolution, based at the Leahurst campus, with specialised indoor and outdoor facilities for wild and laboratory rodents.
- Extensive culture facilities including controlled temperature rooms, glasshouses, plant growth rooms, and a 450m² aquarium equipped for all biomes.
- A 48 pond (2000L) replicated mesocosm facility with individual temperature control and monitoring.
- Access to a state-of-the-art Biomedical Services Unit for work on laboratory rodents.
- Access to farm animals at the Leahurst Campus and to the University Botanic Gardens at Ness, both of which are on the nearby Wirral peninsula.

Excellent facilities/expertise exist elsewhere on the campus, these include MRI scanners, electron, atomic-force and photoelectron microscopy, nanobiotechnology and materials discovery. Maintaining the leading-edge status of these key facilities is the role of the Technology Directorate, which coordinates internal and external investment on behalf of the Faculty, with cost-recovery mechanisms to encourage sustainability.

**Diversity and Equality**

We are very proud to hold Athena SWAN Gold status in recognition of our activities and policies promoting gender equality and inclusivity of all our staff and students. This is Liverpool's first Gold award and one of eleven nationally, placing us in the 1.7% of university departments holding such an award (see Advance HE website). We are committed to supporting our staff and students in reaching their full potential, providing a fair and supportive environment and organisational structure. Further details are available on our Athena SWAN web page.
# PERSON SPECIFICATION

## Essential Criteria

### Experience

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<th>Experience as a successful researcher</th>
<th>Experience of cross-disciplinary research</th>
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<td>Evidence of high quality publications</td>
<td>Experience of innovative contribution to design and delivery of teaching</td>
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<td>Evidence of research independence</td>
<td>Evidence of scientific leadership at a national level</td>
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<td>1.3</td>
<td>Evidence of ability to collaborate with other research groups whilst pursuing independent research interests</td>
<td>Evidence of engagement at a national or international level</td>
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<td>Evidence of ability to obtain grant funding</td>
<td>Experience of supporting and managing a team</td>
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<td>Evidence of undergraduate and/or postgraduate teaching experience</td>
<td>Evidence of ability to lead a research group</td>
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<td>1.6</td>
<td>Evidence of scientific leadership at a local level</td>
<td>Evidence of securing substantive grant awards for appointment at G9 level (Senior Lecturer)</td>
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<td>1.7</td>
<td>Experience of training in laboratories in more than one institution</td>
<td>Leadership and active collaboration within and outside your institution for appointment at G9 level (Senior Lecturer)</td>
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<td>1.8</td>
<td>Experience in a Lecturer or equivalent academic position</td>
<td>Experience in a Lecturer or equivalent academic position for appointment at G9 level (Senior Lecturer)</td>
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## Education, Qualifications and Training

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<th>PhD in relevant scientific area</th>
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<td>2.1</td>
<td>Postdoctoral training in relevant area</td>
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## Skills, General and Special Knowledge

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<th>Excellent technical research skills in mass spectrometry-based proteomics</th>
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<td>3.1</td>
<td>Excellent written and presentation skills</td>
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## Personal Attributes and Circumstances

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<th>Integrity and commitment to diversity</th>
<th>Proven ability to prioritise, work to deadlines and demonstrate initiative</th>
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<td>4.1</td>
<td>Interest in supporting the development of junior researchers</td>
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Criteria for Confirmation in Appointment for Academic Staff appointed on or after January 2013

Probationary members of staff will:

Research

- Demonstrate that they have fulfilled the agreed plans and priorities of their research to an internationally excellent standard, or which demonstrates that their research is progressing towards an internationally excellent standard

Knowledge Exchange

- Demonstrate that they have an awareness of potential knowledge exchange audiences and that they have engaged with the internal and external knowledge exchange environment

Learning and Teaching

- Demonstrate that they have fulfilled the agreed teaching expectations assigned to them to a standard expected in their subject area
- Demonstrate how they have contributed to the student experience at undergraduate and/or postgraduate level, including evidence of PGR supervision where appropriate
- Demonstrate that they have completed, or be near to completing within a defined deadline, the Certificate of Professional Studies

Contribution and Engagement

- Demonstrate their awareness of the University's plans and priorities and that they are engaged with these
- Demonstrate that they have fulfilled agreed leadership and managerial activities assigned to them
- Demonstrate their awareness of departmental/school/institutional plans and priorities and how they contribute to and engage with these
- Demonstrate that they have an on-going longer term career plan
- Demonstrate that they have an awareness of the University values

Development

- Demonstrate that they have fulfilled any required development and that they have an ongoing plan for the development of their career

Clinical Engagement (if appropriate)

- Demonstrate that they have fulfilled agreed clinical duties assigned to them and all of the associated professional requirements of their clinical status and registration
To apply for a Vacancy at the University you must register on the University of Liverpool E-Recruitment site, https://recruit.liverpool.ac.uk

If you have any queries relating to applying for a Vacancy please contact the Recruitment team by email – Jobs@liverpool.ac.uk

**Acknowledging your application**

Once you have submitted your application you will receive an automatic acknowledgement. Your application can be viewed at any time in the Application History section of your E-Recruitment Account.

**Outcome of applications**

Vacancies at the University often attract a large number of candidates and it is not always possible to respond individually to every application. If you have not heard from the recruiting department within 6 weeks after the closing date please take it that your application has not been successful.
Asylum & Immigration
The University will comply with the Immigration, Asylum and Nationality Act 2006, which requires all employees to provide documentary evidence of their legal right to work in this country prior to commencing employment. Please be aware that you will be required to bring your passport (and visa if applicable) to interview so that it can be copied and verified by a member of the Selection Panel. For posts requiring a recognised degree level or equivalent qualification, and where there is no suitable UK or European Economic Area candidate, the University will take the necessary steps to secure UK Border Agency permission for a foreign national to take up employment.

Should a candidate require a Certificate of Sponsorship in order to take up a post they will need to meet the UK Border Agency Tier 2 Points Based Criteria. A self assessment tool can be found on the UK Border Agency website at: www.ukba.homeoffice.gov.uk/pointscalculator

A candidate may also be required to undertake an English Language test prior to commencing work at the University. Details of Home Office approved tests can be found at: https://www.gov.uk/government/publications/guidance-on-applying-for-uk-visa-approved-english-language-tests. Further information on the eligibility criteria for Certificates of Sponsorship can be found at: www.ukba.homeoffice.gov.uk/employers/points

National Insurance Number
All employed individuals must possess a UK National Insurance Number. Further information and how to apply for a unique National Insurance Number can be found at: https://www.gov.uk/apply-national-insurance-number

Diversity and Equality
The University of Liverpool is committed to diversity and equality of opportunity. All employees and applicants for jobs will be considered on their abilities and will not be discriminated against on the grounds of age, caring responsibilities, colour, disability, employment status, gender, gender identity, marital status, nationality, race or ethnic origin, religion or belief, sexual orientation, socio-economic status or any other irrelevant distinction. Training is available to support career progression within the University.

Two Ticks Disability: Guaranteed Interview Scheme (GIS)
The University of Liverpool is committed to the employment of disabled people, and as part of our commitment, we guarantee to interview all disabled applicants who meet the essential criteria for a post and consider them on their abilities. If your disability prevents you completing the application form by the specified closing date, or when the vacancy closes early, due to a high volume of applications, please call the Recruitment Team to discuss alternative arrangements. http://www.liv.ac.uk/working/jobvacancies/guaranteedinterviewscheme/

Micah Liverpool Programme
The University of Liverpool supports the Liverpool Anglican Cathedral Micah Liverpool Programme. Applicants who have successfully completed the programme and meet the essential criteria for the post will be offered a guaranteed interview. Please note that individuals will be confirmed through the Micah Liverpool Programme directly. http://www.liverpoolcathedral.org.uk/home/micah-liverpool.aspx

GiveGetGo Volunteer Programme
Applicants who have successfully completed the GiveGetGo Volunteer Programme at the University in Partnership with the Transform Lives Company who meet the essential criteria for the post will be offered a guaranteed interview. Please note that individuals will be confirmed through the GiveGetGo Volunteer Programme directly. https://www.liverpool.ac.uk/working/jobvacancies/givegetgo/

Accessibility
If you require copies of documentation in alternative formats, for example, large print or Braille, please contact jobs@liverpool.ac.uk or telephone 0151 794 6771.
If you have any other requirements which will help you access the application or interview process or employment opportunities at the University of Liverpool, please let us know by contacting jobs@liverpool.ac.uk or telephone 0151 794 6771.

Pension
Information about The Occupational Pension Scheme associated with this appointment can be found here. You are encouraged to familiarise yourself with the full particulars of the scheme.