



UNIVERSITY of
BRADFORD

**Lecturer/ Assistant Professor in
Bioinformatics**

Grade 9

Faculty of Life Sciences

School of Chemistry and Biosciences



Job Description and Person Specification

Job Title:	Lecturer/ Assistant Professor in Bioinformatics (2years fixed term)
Grade:	9
Vacancy Reference:	
Faculty / Directorate:	Faculty of Life Sciences
Service / Department:	School of Chemistry and Biosciences
Location:	University of Bradford City Campus
Reports to:	Head of School
Responsible for:	N/A
Special Requirements:	N/A

Main Purpose

- To make a scholarly contribution to research, teaching and knowledge exchange in their specialist area relevant to the University strategy and the sub-strategies of Research & Innovation Strategy and Learning, Teaching & Student Experience Strategy;
- To disseminate knowledge through teaching students from diverse entry pathways and contribute to the teaching and supervision requirements of the Faculty;
- To be collegiate and support the co-creation of knowledge through fundamental and applied research with the aim of enhancing research opportunities and contributing to a positive student experience;
- To maintain a research record with publications in 3* or equivalent rated journals and/or internationally impactful publications;
- To demonstrate grant activity and/or commercial income;
- To support the pursuit of distinctiveness and competitive advantage through embedding the University Strategic objectives;
- To keep up to date with developments in subject area, developing relevant skills and keep abreast of University and sector wide policies, procedures and regulations.

Main Duties and Responsibilities

Research

1. Develop a research profile via the Faculty's Research Centres in the area of Bioinformatics and Computational Biology.
2. Contribute to the Faculty's Research Centre's reputation and impact to ensure a vibrant research environment.
3. Disseminate and communicate research including conference papers and refereed publications or book chapters.
4. Provide a stimulating and inclusive research environment to support the successful graduation of doctoral students.
5. Contribute as a co-supervisor and/or supervisor for at least one PhD student.
6. Contribute to bidding for internal and/or external research funds.
7. Engage with public policymakers, charities, commerce and industry to shape and inform the research landscape.
8. Contribute to the development of Impact Case Studies.

Teaching

9. Plan, deliver and assess innovative, engaging and challenging teaching activities which provide a distinctive and exceptional student experience. In particular, topics are to include, but are not limited to bioinformatics, computational biology, genomics, and evolutionary biology or microbiology.
10. Ensure teaching is research-led with subject content underpinned by relevant specialist research.
11. Evaluate modules and manage projects at undergraduate and postgraduate levels.
12. Contribute to accreditation standards as required including compliance activities or membership of re-accreditation groups.
13. Contribute to the enhancement of and innovation in programmes, assessment and feedback including distance learning.
14. Ensure curriculum design and/or delivery incorporates relevant technology enhanced learning appropriate to the subject discipline.
15. Utilise appropriate assessment methods and approaches and provide quality, personalised and timely feedback.
16. Work collaboratively with colleagues to ensure high levels of student satisfaction and quality outcomes
17. Undertake the role of Personal Academic Tutor (PAT) in accordance with the University's PAT role descriptor.

Knowledge Exchange and Business & Community Engagement

18. Lead or make a significant contribution to Widening Participation or public engagement activities within the Faculty, wider University or local community.

Generic

19. Keep up to date with developments in subject area, developing relevant skills and keep abreast of University and sector wide policies, procedures and regulations.
20. Maintain appropriate professional accreditation(s) including updating professional practice and personal development needs relevant to the Faculty and/or University.
21. Meet PDR objectives and maintain a personal development plan utilising the Performance Development Review Scheme
22. Provide Module Leadership in accordance with the University's Module Leadership role descriptor.
23. Contribute to the working life of the Faculty and University and wider academic community including, graduation, open days, applicant experience days, clearing and the staff recruitment and selection process.
24. Contribute to the financial sustainability of the Faculty and wider University including identifying efficiencies, optimising resources and making savings.
25. Contribute to student recruitment (nationally and internationally) including conversion, clearing activities and induction.
26. Contribute to strategic and operational planning with the Faculty and wider University level and University ambitions including Athena SWAN and other external standards.
27. Provide coaching and mentoring for colleagues including those in their probation and transitioning to new roles.

University of Bradford

Values

We will be an organisation that embodies our values in everything we do. These values are:

- **Excellence** is at the heart of everything we do
- **Trust** is the foundation of our relationships, underpinned by integrity in everything we do
- We give invention light and celebrate creativity and **innovation**
- **Inclusion** - diversity is a source of strength and must be understood, valued, supported and leveraged

Embedding these values across the University will shape our culture and drive our performance.

It is the responsibility of every employee to uphold the University values.

Equality, Diversity and Inclusion (EDI)

The University of Bradford is widely recognised as an Equality, Diversity and Inclusion (EDI) leading institution. Our EDI vision is to bring about, and be recognised as an exemplar of transformational diversity, inclusion and social mobility and emphasise the critical role of leadership in embedding intersectional EDI in order to make our diversity count and deliver impact.

It is the responsibility of every employee to act in ways that support equality, diversity and inclusivity and to work within the spirit and detail of the law, including the Equality Act 2010 and the Human Rights Act 1998.

The University provides a range of services and employment opportunities for a diverse population. Employees will treat all students and colleagues with dignity and respect irrespective of their background.

Employees are responsible for ensuring the University develops a culture that promotes equality, values diversity, and supports inclusivity. This responsibility includes services and functions the University provides and commissions, to students, colleagues, partners in other organisations, visitors and members of the public.

Training

Employees must complete any training that is identified as mandatory to their role. Training should be accessed locally by agreement with line managers and through the University's People and Organisational Development Service. Mandatory training must be completed on commencement of the role, without delay.

Health, Safety and Wellbeing

Health and Safety is a partnership between employee and employer each having responsibilities, as such all employees of the University have a statutory duty of care for their own personal safety and that of others who may be affected by their acts or omissions. It is also the responsibility of all employees, that they fulfil a proactive role towards the management of risk in all of their actions. This entails the risk assessment of all situations, the taking of appropriate actions and reporting of all incidents, near misses and hazards.

All employees have a duty to report any practice that you consider compromises standards of health and safety and risk. The Code of Practice on Public Interest Disclosure (Whistleblowing) details the process and advises on the protection from unfair treatment for an individual who raises such concerns.

Employees are required to co-operate with management to enable the University to meet its own legal duties and to report any circumstances that may compromise the health, safety and welfare of those affected by the University's undertakings.

Managers should note they have a duty of care towards any staff they manage; academic staff also have a duty of care towards students. As part of this you will need to ensure

you are familiar with any relevant Health and Safety policies and procedures; seeking advice from the Central University Health and Safety team as appropriate.

Information Governance

Employees have a responsibility for the information and records (including student, health, financial and administrative records) that are gathered or used as part of their work undertaken for the University. This may be in paper, electronic or other formats. An employee must consult their manager if they have any doubts about the appropriate handling of the information and records with which they work.

This means that employees are required to uphold the confidentiality of all data, information and records and to ensure they are recorded to appropriate data standards and to the relevant electronic system or manual filing system in order to maintain their accessibility and integrity.

To support these requirements all employees must adhere to data protection legislation and the University's policies and procedures in relation to information governance and information security at all times.

Additionally, employees will be required, when and where appropriate to the role, to comply with the processing of requests under the Freedom of Information Act 2000.

All employees will be given the necessary training to enable them to adhere to these requirements.

Criminal Record Disclosures and Working with Vulnerable Groups

Depending on the defined nature of your work and specialist area of expertise, your role may be exempt from the provisions normally afforded to individuals under the Rehabilitation of Offenders Act 1974. In these circumstances, the University may obtain a standard or enhanced disclosure through the Disclosure and Barring Service (DBS) under the Rehabilitation of Offenders Act 1974 (Exceptions) Order 1975 (as amended) and, in certain circumstances, the Police Act 1997.

Suitable applicants will not be refused positions because of criminal record information or other information declared, where it has no bearing on the role (for which you are applying) and no risks have been identified against the duties you would be expected to perform as part of that role.

During the course of your employment, you must notify your line manager if you are charged with a criminal offence (excluding motoring fixed-penalty convictions). Failure to notify the University of a criminal conviction could lead to withdrawal of a job offer where employment has not commenced, or disciplinary action for employees in post. All employees of the University who have contact with children, vulnerable adults, service users and their families must familiarise themselves, be aware of their responsibilities and adhere to the University's policy and procedures and the Safeguarding Vulnerable Groups Act 2006. Where appropriate, employees will be given the necessary training to enable them to adhere to these requirements.

University Policies and Procedures

The University operates a range of policies, procedures and formal guidance (available on the University intranet and ServiceNow). All employees must observe and adhere to the provisions outlined in these documents.

Post Specification

Lecturer in Bioinformatics

Faculty of Life Sciences

School of Chemistry and Biosciences

	Essential	Desirable
Qualifications	<ul style="list-style-type: none">• PhD (or equivalent) in Bioinformatics, Computational Biology, Genomics, Microbiology or related subject.• Honours degree (or equivalent in a relevant subject area OR honours degree in an unrelated subject with a higher degree and/or professional qualification in an appropriate area)• Postgraduate Certification in Higher Education Practice, or commitment to obtaining this following appointment	<ul style="list-style-type: none">• Experience or research focus in human genomics• Commitment to achieving appropriate level of membership of Advance HE• A level of English equivalent to level C1 on the Common European Framework of Reference (CEFR)
Experience, Skills and Knowledge	<ul style="list-style-type: none">• Excellent computational skills with experience in large-scale bioinformatics analysis of sequence data, and experience with scripting and/or programme for bioinformatics• Proficiency in UNIX, Python, R, and SQL and use of version control• Proven experience in using statistical packages and understanding of statistical methods	<ul style="list-style-type: none">• Ability to contribute to and/or lead the design, development and delivery of modules• Ability to teach biostatistics at level 4 through to level 7• Experience with collaborative bioinformatic programming

	Essential	Desirable
	<ul style="list-style-type: none"> • Experience of teaching and facilitating/supporting learning in Bioinformatics and/or Computational Biology HE at undergraduate and/or postgraduate level • Evidence of facilitating student learning • Evidence of effective research project design and supervision at undergraduate and/or postgraduate level • Evidence of research expertise with a record of recent publications including conference papers, refereed publications and/or book chapters or equivalent professional measures of esteem • Able to build research activity which can demonstrate impact, significant and reach at national level including contributing to networks and partnership building • 	<ul style="list-style-type: none"> • Evidence of experience in proteomic techniques and proteomic analysis • Ability to apply relevant technologies to support learning and optimise attainment for all students • Ability to engage in assessment activities that inspire and engage students, promote learning and enhance self-regulation • Ability to manage student pedagogical and welfare issues (including personal tutoring) • Ability to participate in the application for external research funding • Expertise in microbial bioinformatics
Personal Attributes	<ul style="list-style-type: none"> • Excellent written and oral communication skills with ability to communicate complex information effectively to mixed groups with diverse levels of understanding • Evidence of effective interpersonal skills • Good organisational skills with high level of attention 	<ul style="list-style-type: none"> • Ability to participate as a member of a multi-disciplinary research team • Actively represent the Faculty and University in a positive manner, and identify and exploit opportunities to enhance its reputation • Ability to play an active role in matters relating to teaching quality assurance, subject review and accreditation

	Essential	Desirable
	<ul style="list-style-type: none">• Ability to manage an administrative workload, managing own time to achieve strict and often conflicting deadlines	<ul style="list-style-type: none">• Ability to resolved educational and/or research related problems, using initiative and creativity whilst ensuring compliance with appropriate regulations and policies• Ability to think strategically at discipline level