



OPPORTUNITY

Teaching Fellow/Senior Teaching Fellow in Data Analytics/Data Mining/Big Data

Reference: R210409

Salary: £42,149 to £60,022, per annum. Grade 9/10, depending on experience

Contract Type: Continuing

Basis: Full Time (36.5 hours per week) Two Positions Available

Job description

We have an opportunity(s) in the Operations and Information Management (OIM) Department for Teaching Fellow / Senior Teaching Fellow(s) in data analytics for big data. Appointments will be made based on the experience and academic profile of the candidate; but ideally, we are looking to make TWO appointments at a senior teaching fellow level.

Applicants should have experience of teaching at different levels – ideally at under-graduate and at post-graduate levels (MSc/MBA) and have potential to deliver executive education courses. Applicants should be able to demonstrate effective and innovative teaching practices and a willingness to participate in the design of new modules and courses, especially for new distance learning courses.

We would particularly welcome candidates who have strengths in data analytics, big data, data mining, machine learning and artificial intelligence; as well as process mining, web analytics and performance analytics. A wider background in quantitative subjects such as statistical analysis, dashboards and data, forecasting, optimization, text/semantic analysis is desirable. Applicability to managerial contexts is essential.

Practical skills in business analysis software such as R, Python and SAS are essential, as are other programming skills for big data analysis. Candidates should be able to apply techniques in practice. Applicability to managerial decision making is essential.

The ability to deliver industry certified courses in the above subjects is also desirable.

Candidates with practical experience in service sectors (e.g. banking, law, and retailing) and manufacturing sectors are welcome. We also encourage candidates with practical business consulting experience to apply for this position(s), as we seek applicants who can teach data analytics for big data to a broad range of students in the Business School (e.g. those on Marketing, Law, HR, and Finance degrees).

Applicants should be able to demonstrate effective and innovative teaching practices usable at undergraduate and postgraduate levels. Applicants with some practical experience of using data analytics and big data are strongly encouraged to apply.

In addition, applicants should have experience of supervising UG and PG dissertation projects. Ability to supervise DBA/PhD students is also desirable.

Job Purpose:

To contribute to, develop and enhance the teaching and scholarship activities of the Business School independently, and as part of a team, through professional practice and expertise.

Main Duties/Responsibilities:

Teaching and Learning

- ▶ To teach in a developing capacity, students at different levels as appropriate including foundation, undergraduate and postgraduate students and to carry out the associated examining processes.
- ▶ To be responsible for specific areas of teaching and learning within teaching programmes, offering guidance to others as appropriate.

- ▶ To ensure own teaching meets quality standards, monitoring delivery and student progress.
- ▶ To cooperate with colleagues across disciplines in the continuous review and development of programmes and the curriculum.
- ▶ To use of a range of innovative methods and techniques in teaching, learning and assessment, including pursuing digital and modern methods of delivery.
- ▶ To engage in supporting and promoting quality assurance measures within the University e.g. by collaborating with academic colleagues in the evaluation, and development of modules within a subject area in terms of content, delivery, assessment as well as reviewing delivered modules, setting and receiving student feedback questionnaires.
- ▶ To develop own teaching materials, methods and approaches and contribute to the design and content of specific areas of teaching and learning within the School's teaching programmes.
- ▶ To identify the learning needs of students and define appropriate learning objectives to ensure that content, methods of delivery and learning materials meet the defined learning objectives.
- ▶ To create a teaching environment that develops challenging thinking, debate, and the ability to engage in critical discourse and rational thinking.
- ▶ To identify appropriate assessment criteria and assess the progress of students, providing feedback by reference to the criteria
- ▶ To undertake academic administration relevant to the needs of the post.

Research

- ▶ To pursue and develop a pedagogical and/or academic research programme consistent with the priorities and strategy of the School.
- ▶ To publish the outcomes of research in professional journals, textbooks and at professional conferences etc.
- ▶ To disseminate the findings of pedagogical research to colleagues within and beyond the School
- ▶ To apply knowledge acquired from scholarship to teaching.

External Engagement

- ▶ To develop student placement schemes with companies and research institutions both in the UK and overseas.
- ▶ To enhance the University's reputation with professional/scholarly bodies by participating in existing networks and by developing new links capable of demonstrating impact.

- ▶ To represent the interests of the subject and School via activities to raise the regional, national and international profile, particularly with industry, the professions, schools and businesses.

Citizenship

- ▶ To carry out specific School roles and functions as may be reasonable required e.g. Module Leader, Programme Director.
- ▶ To manage own teaching, scholarship and administrative activities.
- ▶ To provide pastoral care and support to students.
- ▶ To act as personal tutor providing first line support to students.
- ▶ To take part in and, if required, manage staff seminars, cross-departmental activities and events e.g. open days, sixth form conferences and other outreach activities, etc.
- ▶ To contribute to academic Departmental meetings and on occasion, act as chair of one or more of the School committees, these responsibilities being equitably distributed across the academic staff.
- ▶ To display and promote Aston values through own actions and behaviour.
- ▶ To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.
- ▶ To be pro-active in one's own personal development and training needs.

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	<p>Undergraduate degree in relevant quantitative subject.</p> <p>Masters degree /post graduate diploma in a quantitative subject.</p> <p>Recognised teaching qualification at the appropriate level e.g. PGCPP (or equivalent) / membership of Advance Higher Education Academy, ideally at Senior Fellow level, or with a commitment to attain within 24 months.</p>	Application form
Experience	<p>Experience of teaching and assessing within a degree programme</p> <p>Experience of curriculum design, review and implementing innovative ideas</p> <p>Experience of using VLE's as a learning tool (e.g. Blackboard).</p> <p>Experience of initiating/contributing to pedagogic research appropriate to grade.</p> <p>Grade 10 Experience of mentoring, coaching colleagues in teaching and learning</p>	Application form, interview and presentation
Aptitude and skills	<p>Excellent communication skills to build external contacts that will support teaching and pedagogic research activity.</p> <p>Ability to prepare written proposals and applications to external bodies (e.g. accreditation purposes, grant applications, apprenticeship degree proposals).</p> <p>Ability to explain complex concepts and theories in a clear and understandable</p>	Interview and presentation

	Essential	Method of assessment
	<p>manner to a range of abilities, especially quantitative subjects.</p> <p>Highly developed interpersonal skills with the ability to provide tutorial and counselling advice to undergraduate and postgraduate students.</p> <p>Good organizational skills including the ability to meet deadlines.</p> <p>Grade 10 Ability to take on leadership role at Academic Department/School/University level.</p>	

	Desirable	Method of assessment
Education and qualifications	<p>Membership of relevant professional body (e.g. The Operational Research Society, British Computer Society)</p> <p>Professional qualifications and certifications and equivalent extensive work experience.</p> <p>PhD or DBA and desire to continue related research in teaching subject areas.</p>	Application form
Experience	<p>Experience in teaching and use of big data analytics, data mining, systems thinking and systems analysis, predictive modelling, visualization, optimization, analytics in the service sector (e.g. banking, law, or retail), manufacturing sector or consulting sector.</p> <p>Expertise in techniques and software such as R, Python, SAS other web-based technologies for the development and teaching of quantitative subjects.</p>	Application form, interview and presentation

	Desirable	Method of assessment
	<p>Ability to develop teaching cases of big data and data analysis by linking with practitioners of topical application areas.</p> <p>Consulting experience using business analytics.</p> <p>International and/or inter-cultural experience.</p>	
Aptitude and Skills	<p>Able to link to business and users of big data and data analytics.</p> <p>An innovative 'hands-on' and 'can-do' mindset.</p>	Interview and presentation

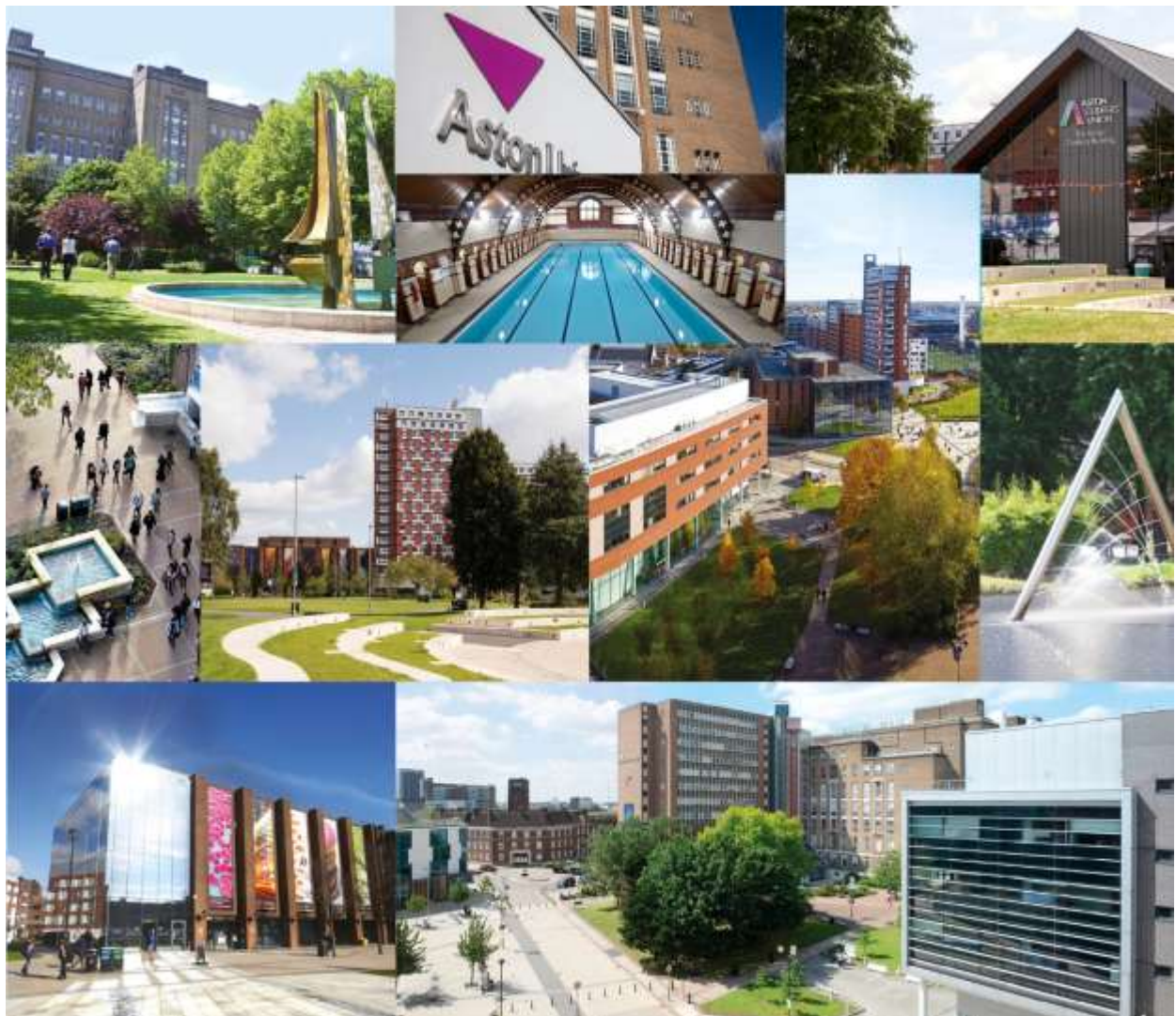
How to apply

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

Applications should be submitted by 23.59pm 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: Professor Ben Clegg

Job Title: Professor of Operations Management and Head of Operations and Information Management Department

Email: b.t.clegg@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>

Aston University

Birmingham

B4 7ET, UK.

+44 (0)121 204 3000

aston.ac.uk



**Where change
gets real.**

