Candidate Information

Position:	Professor of Data Driven Engineering
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	26/113173
Closing Date:	Monday 16 March 2026
Salary:	£79,985 - £88,418 per annum
Anticipated Interview Date:	Thursday 23 April 2026
Duration:	Permanent

JOB PURPOSE:

The postholder will spearhead an internationally leading program of research into Data Driven methods applied to Mechanical and/or Aerospace Engineering applications, that delivers real world impact. They will lead future developments in creating and enhancing Data Driven Engineering research, and closely related activity, in areas of interest to the School of Mechanical and Aerospace Engineering. The School is nationally and internationally recognised for its research in engineering design and net zero transport, and we would welcome candidates with experience in addressing both single discipline engineering challenges aligned with our current strengths, and also those with a track record working across disciplines, and in new synergistic application areas. In addition, the school is closely partnered with the Advanced Manufacturing Innovation Centre, a £90M investment in manufacturing innovation which provides opportunities for data rich manufacturing research linked to real world industrial challenges.

The postholder will lead curriculum development and define strategies for teaching and assessment in state-of-the-art Data Driven Engineering topics and related fields, and will participate in leadership roles within the School and University commensurate with the academic profile.

MAJOR DUTIES:

1. Lead a distinguished programme of international research activity in Data Driven Engineering applied to Mechanical and/or Aerospace Engineering applications, disseminating original work through high-quality publications or other media, with demonstrable impact on the research agenda.
2. Provide successful supervision of PhD students and postdoctoral researchers, contributing to the development of future research leaders.
3. Make a significant, constructive, and impactful contribution to leadership initiatives that support the effective management of the school, faculty, and University.
4. Secure sustained external funding through competitive, peer-reviewed grants or awards as Principal Investigator, and attract R&D investment from national or global businesses.
5. Provide outstanding and impactful teaching at undergraduate and/or postgraduate levels, contributing to an exceptional student learning experience.
6. Promote a collegial and inclusive academic environment, supporting colleagues and students, and modelling professional behaviours.
7. Support the achievement of student recruitment targets, including international recruitment, and contribute to the development of programmes that attract a diverse and talented student body.
8. Develop and lead significant individual or collaborative research programmes at local, national, and international levels, contributing to the University's international research profile.
9. Champion the University's commitment to Athena SWAN and broader equity, diversity, and inclusion priorities across the institution.

ESSENTIAL CRITERIA:

1. A degree and PhD in a relevant, closely related, subject.

2. Sustained record of publication of internationally recognised research outputs, with demonstrable impact on leading researchers and the research agenda in using Data Driven methods for Mechanical or Aerospace Engineering applications.
3. Proven track record of securing research income as principal investigator.
4. Evidence of developing and leading successful peer reviewed research funding applications as Principal Investigator.
5. Strong track record in securing and managing large scale grants.
6. Track record of successful doctoral and post-doctoral supervision.
7. Proven expertise and track record in Data Driven methods.
8. Evidence of international recognition and esteem.
9. Evidence of successful undergraduate and/or postgraduate teaching, project supervision, assessment and feedback experience.
10. Evidence of excellent standard of teaching performance as judged by evaluation methods including student feedback or peer-review.
11. A strong track record of leadership, demonstrated as evidence of major initiatives that significantly improved education, research or administrative processes.
12. Sustained senior academic leadership in the wider research or scholarship community with demonstrable impact on the strategic direction of that community.
13. Evidence of providing leadership, line management and mentoring to staff.
14. Leadership qualities reflecting our core values.
15. Ability to communicate complex information effectively.
16. Ability to communicate effectively in English, both orally and in writing.
17. A commitment to creating an inclusive and supportive academic environment enhancing equality, diversity, and supporting early career academics.

DESIRABLE CRITERIA:

1. Completed PGCHET or an equivalent teaching qualification.
2. Existing industrial research collaborators.
3. Evidence of management and delivery of significant projects within timescales and budgets.
4. Coordination of large, multi-investigator projects.
5. A commitment to creating an inclusive and supportive academic environment.
6. Successful creation of undergraduate or postgraduate programmes.
7. Evidence of successful innovation in the development or modernisation of the curriculum with an impact at departmental level.
8. Evidence of successfully setting and then delivering on a strategic vision in an educational or an R&D context.
9. Evidence of education scholarship.
10. Teaching awards.
11. Evidence of social engagement and outreach activities.
12. Evidence of strong societal and economic impact derived from research or educational initiatives.
13. Demonstratable leadership in EDI activities.

ADDITIONAL INFORMATION:

Informal enquiries may be directed to: Professor Gary Menary at g.menary@qub.ac.uk.