

Candidate Information

Position: Lecturer/Senior Lecturer in Chemical Engineering
School/Department: Chemistry and Chemical Engineering
Reference: 24/112096
Closing Date: Monday 12 August 2024
Salary: £43,605 - £71,945 per annum.
Anticipated Interview Date: Monday 26 August 2024

JOB PURPOSE:

To teach Chemical Engineering at undergraduate and postgraduate level, to undertake a programme of independent, high-level research which enhances and augments the research already undertaken within the School, and to contribute to the School's administration/outreach activity. At Senior Lecturer level, there is an additional requirement to provide leadership in teaching and research within Chemical Engineering, and to contribute to management in the School.

MAJOR DUTIES:

Teaching:

1. Teach and assess undergraduate and taught postgraduate students, including the teaching of core engineering courses (e.g. Process Design) and supervising projects.
2. Assess and examine undergraduate and taught postgraduate students, and participate in Examination Boards.
3. Design, develop and update modules and/or programmes in line with School's teaching strategy. For Senior Lecturer, provide leadership in curriculum development.
4. Develop new and innovative teaching approaches e.g. for online learning.
5. For Senior Lecturer, provide leadership in the planning and delivery of teaching and teaching administration, take an active role in the preparation for the IChemE accreditation process.
6. Contribute to the delivery and administration of the School's collaborative teaching agreements, including travelling abroad where necessary.

Research:

1. Undertake independent, high-quality research in an area which fits with the research priorities of the School of Chemistry and Chemical Engineering, in particular to the areas of sustainability and net zero engineering.
2. Actively participate in the development of the School's research themes.
3. Publish in high quality, refereed journals which complement the School's Research Excellence Framework objectives.
4. Present at national and/or international conferences.
5. Obtain grant funding from bodies including governmental and non-governmental agencies.
6. For Senior Lecturer, provide leadership in research, demonstrated by leading funding bids, working with colleagues to develop innovative research proposals, and contributing to the research management within the School.
7. Supervise research staff and postgraduate students.

Administration/Contribution to the Community:

1. Undertake outreach, recruitment and internationalisation activities. For Senior Lecturer, provide leadership in one or more of these areas.
2. Carry out teaching administration including module co-ordination, assessment and feedback, module review, etc. For Senior Lecturer, contribute to management of teaching at a strategic level.
3. Contribute to the running of the School by taking on appropriate roles as required (eg Advisor of Studies, Year Head, Programme Lead, Examinations Officer).
4. For Senior Lecturer, act as mentor, line manager and/or appraiser to colleagues, as required by Head of School.
5. Act as personal tutor for students.

6. Contribute to accreditation, internal quality review, audit and other external assessments. For Senior Lecturer, lead in one or more of these areas as directed by Head of School.
7. Be a member of School Board and of the relevant Examination Board(s), and of other School, Faculty and University committees as required.

ESSENTIAL CRITERIA:

1. Honours Degree in Chemical Engineering.
2. PhD completed in chemical engineering or a related subject.
3. For SL: Completed a Postgraduate Certificate in Higher Education Teaching (or equivalent) and/or membership of an appropriate professional and/or teaching body e.g.HEA.
4. Recent research experience that complements the School.
5. Postdoctoral or industrial experience commensurate with the position of Lecturer/Senior Lecturer.
6. Desire (L) or proven ability (SL) to deliver an independent research programme.
7. Strong and high quality publication record commensurate with career stage.
8. Ability to prepare conference papers and grant applications.
9. Ability to supervise PhD students.
10. For SL: recognised excellence in subject area; supervised PhD to completion as primary supervisor; secured research funding as PI.
11. Recent relevant experience of teaching, assessment in Chemical Engineering commensurate with career stage.
12. For SL: Evidence of leadership in the delivery and management of teaching; teaching assessing and teaching administration in Chemical Engineering.
13. Evidence of administrative experience appropriate to the position of Lecturer or Senior Lecturer.
14. Excellent knowledge of written and spoken English.
15. High level of scientific logic.
16. Ability to communicate complex information effectively.
17. Organised and attentive to detail.
18. Ability to meet deadlines.
19. Ability to work effectively within a diverse team.
20. Willingness to travel and potentially teach away from QUB, including overseas.
21. Willingness to work irregular hours as needed.

DESIRABLE CRITERIA:

1. Completed a Postgraduate Certificate in Higher Education Teaching (or equivalent) and/or membership of an appropriate professional and/or teaching body e.g.HEA.
2. Hold Chartered Engineer status with a relevant engineering professional body, e.g. IChemE.
3. Research experience in the areas of sustainability and/or net zero engineering.
4. Evidence of experience in research commercialisation or other appropriate impact indicators.
5. Evidence of successful PhD supervision to completion.
6. Proven ability to secure research funding as PI.
7. Recent relevant experience of teaching process design.
8. Experience of innovative teaching approaches.
9. Evidence of mentoring, supervising, managing and supporting staff.
10. Experience of outreach to promote engineering and/or science to the public or to schools.

ADDITIONAL INFORMATION:

Informal enquiries can be directed to: Professor Mark Muldoon - m.j.muldoon@qub.ac.uk