

Department of Chemistry/School of Science

LECTURER IN PHYSICAL CHEMISTRY

Job Ref: REQ260416

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School/Department summary:

The Department of Chemistry is part of the School of Science and is located on Loughborough University's main East Midlands campus. Chemistry moved to new facilities in 2018 on "West Park" as part of a £59M investment in experimental STEM provision that also included creation of an award-winning teaching facility (StemLab) and the Science and Enterprise Park (LUSEP). The majority of experimental STEM provision is co-located on West Park which facilitates cross-disciplinary collaboration across all of Science and Engineering.

We are looking to **recruit a high-calibre individual with physical chemistry expertise** to strengthen our well-established **research themes**. Applicants whose research complements and strengthens our existing activities below are encouraged to apply.

The three **Department of Chemistry Research Themes** are: **Energy and Sustainability** (including areas such as energy-generation, demand reduction and storage, catalysis, chemical recycling), benefitting from aligned EPSRC CDT's (EnerHy, Off-shore Wind Energy, Waterwiser). **Chemistry for Health** (including areas such as synthesis, therapeutics, sensing and imaging) has been bolstered by recent appointments in the biological space, the award of the UK Centre for Neuromorphic Computing, and complementary investments in two other Schools, reflecting our campus-wide ethos of working collaboratively to change the world. Research intensity in **Digital Chemistry** (including areas such as molecular and materials modelling, chemical and bioreactor design, VR and AI in chemistry, and drug detection) benefits from recent major government funding and the campus-wide University DigiLabs initiative.

All themes benefit from the two Chemistry led University Research Centres, one in Analytical Science and the other in device fabrication (Lab2Fab). Both these centres capitalise on the growth of enabling technologies and their applications, as exemplified in recent spin-out growth (Figura, R3V Tech).

We welcome informal enquiries, especially from people belonging to groups currently underrepresented in Chemistry as an academic discipline; please feel encouraged to contact the Head of Department, Professor Sandie Dann (s.e.dann@lboro.ac.uk) or the Chemistry Research Coordinator Professor Stephen Butler (s.j.butler@lboro.ac.uk).

Job Description

Please note that this is a generic job description for the position of Lecturer.

Job Family and Grade: Research, Teaching and Enterprise Grade 7

Job Purpose

To take a leading role in developing and enhancing the research, teaching and enterprise activities in support of the University Strategy, Creating Better Futures. Together.

Job Duties

Research

- To pursue a personal research programme consistent with the research priorities of the School that increases the global visibility and reputation of the University.
- To secure external research funding.
- To supervise and manage research projects.
- To publish the outcomes of research in outlets of international standing.
- To attend and contribute to major international conferences.
- To supervise postgraduate students at Masters and Doctoral levels.
- To collaborate in research initiatives with colleagues both within the University and externally.

Teaching

- To work with colleagues in the School to deliver an exceptional learning environment for students.
- To teach and inspire undergraduate and postgraduate students, and to conduct associated assessments.
- To provide academic and pastoral support to undergraduate and postgraduate students.
- To promote the use of a range of methods and techniques in teaching, learning and assessment.
- To engage in the evaluation and development of modules for which you have responsibility, in terms of content, delivery and assessment.
- To be responsible for the design and content of specific areas of teaching and learning within the School's undergraduate and postgraduate programmes.
- To cooperate with colleagues in the continuous review and development of the School's taught programmes and curriculum.

Enterprise

- To engage with business, public and voluntary organisations through knowledge exchange activities such as student projects and placements, research collaboration, consultancy and specialist training.
- To create social, cultural and economic impact from academic, especially research, activity.
- To secure external funding in support of these activities.
- To seek opportunities for the commercialisation of research and the formation of social enterprises.

Related Activities and Functions

- To work effectively with relevant administrative, technical and academic staff in the School and across the University.
- To carry out specific administrative roles and functions as may be reasonably required.
- To take part in and, on occasion, act as chair of one or more School committees.
- To engage in training programmes in the University (e.g. through Staff Development) which are consistent with your needs and aspirations and those of the School.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.

Points To Note

The purpose of this job description is to indicate the general level of duties and responsibility of the post. The detailed duties may vary from time to time without changing the general character or level of responsibility outlined in the document.

Organisational Responsibility

Reports to the: Head of Department

Direct Reports: N/A, except where existing responsibilities exist e.g. through research grant leadership and personnel supervision

Budget Responsibilities: N/A, except where existing responsibilities exist e.g. through research grant leadership and personnel supervision

Structure Chart: NA.

Person Specification

Below you will find the general person specification for a Lecturer role at Loughborough University.

Your application will be assessed based on the essential and desirable criteria listed below.

Applicants are strongly encouraged to explicitly demonstrate how they meet each essential (and desirable) criteria at the application stage. The criteria that you need to demonstrate in your application will be listed as Stage 1 in the table below.

Stages of assessment are as follows:

- 1 – Criteria measured within the Application
- 2 – Criteria measured at Test/Assessment Centre/Presentation
- 3 - Criteria measured at Interview

Essential Criteria

Area	Criteria	Stage
Experience	Evidence of research and/or academic activity in Physical Chemistry consistent with the needs of the School.	1
	Experience of working in a high-quality academic research environment including experience at post-doctoral level.	1
	Evidence of authoring original work, in high quality refereed academic journals appropriate to career stage.	1
	Candidates from outside of academia must be able to demonstrate the ability to make the transition to becoming a top academic	1,2,3
Skills and abilities	Ability to develop an original research programme on your own initiative and to persuade others of its importance.	2,3
	Ability to identify and develop potential social / cultural / economic impact from professional activity.	2,3
	Knowledge of research and enterprise funding opportunities in UK HE and understanding of how to secure funding.	2,3
	A clear trajectory towards achievements at a higher academic level.	1,2,3
	Excellent communication and interpersonal skills which give you the ability to engage with students, colleagues, business and other agencies on a wide variety of matters.	1,2,3
	Ability to work as part of and to lead a team.	1
Training	Commitment to and evidence of continuing professional development.	1,3
Qualifications	A PhD in Chemistry	1
Other	Uphold and actively contribute to the University's commitment to Equity, Diversity and Inclusion.	1,3

Desirable Criteria: These are skills, experience and competencies that are additional extras that may be used to narrow the pool down if we receive a high volume of applications that meet the essential criteria.

Area	Criteria	Stage
Experience	Experience of demonstrating leadership of research in physical chemistry, evidenced through PhD and/or postdoctoral experience.	1,3
	Experience of presenting research work at international conferences.	1
	Experience of teaching and assessment at undergraduate and postgraduate level.	1,3
	Experience of successfully supervising the projects of taught and research students or company staff at equivalent levels.	1,3
	Experience of work in or in collaboration with the disciplines within the School	1
Skills and abilities	Ability to take part in module and programme development.	3
	Knowledge of the challenges faced in UK HE.	1
Qualifications	Achieved or progressing towards appropriate professional status.	1

Conditions of Service

The appointment will be subject to the [University's Terms and Conditions of Employment](#) relevant to the job grade for Academic and Related staff.

Shared University Responsibilities

As a member of the Loughborough community, you are expected to:

- Take reasonable care of yourself, others and the environment, and to prevent harm by your acts or omissions. All staff are therefore required to adhere to the University's Health, Safety and Environmental Sustainability Policies & Procedures.
- Support and contribute to the University's commitment to principles of equity, diversity and inclusion (EDI) while carrying out all duties, behaving in a manner that treats others with dignity and respect and upholds every person's right to lawful freedom of expression, freedom of speech and academic freedom. Further information about EDI at Loughborough and our strategic aims is available on our website.

Our Purpose, Vision, and Values

Our purpose, Vision and Values underpin all that we do and shape how we work together at Loughborough.

We're proud to promote our values: **Adventurous, Collaborative, Creative, Authentic** and **Responsible**. Our people bring these values to life every day, and they are central to the positive and supportive culture that makes Loughborough unique.

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Read more about our [vision and values](#).

Our Accreditations



We strive to create a culture that supports equity and celebrates diversity throughout the campus. The University holds a [Bronze Athena SWAN award](#) which recognises the importance of support for women at all stages of their career.



We are proud to be a [Race Equality Charter Member](#). The Charter aims to improve the representation, progression and success of all minority ethnic staff and students within higher education and address issues of racism within higher education institutions (HEIs).



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Chemistry Programmes (Chemistry, Medicinal Chemistry and Chemistry with Computing) are accredited by the Royal Society of Chemistry.



The Natural Sciences Programmes are accredited by the Society of Natural Sciences

Disclosure and Barring Service Check: This post is subject to the Rehabilitation of Offenders Act (Exceptions Order) 1975 and as such it will be necessary for a submission for a Disclosure to be made to the Disclosure and Barring Service (formerly known as CRB) to check for any previous criminal convictions.

As part of the University's ongoing commitment to redeployment, please note that this vacancy may be withdrawn at any stage of the recruitment process if a suitable redeployee is identified.

SENIOR LECTURER IN PHYSICAL CHEMISTRY

Job Ref: REQ260416

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Job Description

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Job Family and Grade: Research, Teaching and Enterprise Grade 8

Job Purpose

To take a leading role in developing and enhancing the research, teaching and enterprise activities in support of the University Strategy, Creating Better Futures. Together.

Job Duties

Research

- To pursue a personal research programme consistent with the research priorities of the School that increases the global visibility and reputation of the University.
- To secure external research funding.
- To supervise and manage research projects.
- To publish the outcomes of research in outlets of international standing.
- To attend and contribute to the organisation of major international conferences.
- To supervise postgraduate students at Masters and Doctoral levels.
- To lead and collaborate in research initiatives with colleagues both within the University and externally.

Teaching

- To work with colleagues in the School to deliver an exceptional learning environment for students
- To teach and inspire undergraduate and postgraduate students, and to conduct associated assessments.
- To provide academic and pastoral support to undergraduate and postgraduate students.
- To promote the use of a range of methods and techniques in teaching, learning and assessment.
- To engage in the evaluation and development of modules for which you have responsibility, in terms of content, delivery and assessment.
- To be responsible for the design and content of specific areas of teaching and learning within the School's undergraduate and postgraduate programmes.
- To lead colleagues in the continuous review and development of the School's taught programmes and the curriculum.

Enterprise

- To lead engagement with business, public and voluntary organisations through knowledge exchange activities such as student projects and placements, research collaboration, consultancy and specialist training.
- To create social, cultural and economic impacts from academic, especially research, activity.
- To secure external funding in support of these activities.
- To seek opportunities for the commercialisation of research and the formation of social enterprises.

Related Activities and Functions

- To work effectively with relevant administrative, technical and academic staff in the School and across the University.
- To carry out specific administrative roles and functions as may be reasonably required.
- To take part in and, on occasion, act as chair of one or more of the School's committees.
- To engage in training programmes in the University (e.g. through Staff Development) which are consistent with your needs and aspirations and those of the School.
- To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.

Points To Note

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Organisational Responsibility

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Structure Chart: NA.

Person Specification

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Essential Criteria:

Area	Criteria	Stage
Experience	Evidence of research and/or academic activity in physical chemistry consistent with the needs of School	1
	A record of excellence, which is contributing to the furtherance of knowledge in area of activity, and is recognised internationally in that area.	1,2,3
	Experience of working in an internationally recognised academic research environment, including significant experience at post-doctoral level.	1
	Evidence of authoring a substantial body of original work, in the highest quality refereed academic journals.	1
	Significant experience of successfully supervising the projects of taught and research students or company staff at equivalent levels.	1,3
	Candidates from outside of academia must be able to demonstrate the ability to make the transition to becoming a top academic	1,2,3
Skills and abilities	Experience of presenting research work at conferences.	1
	Experience of teaching and assessment at undergraduate and postgraduate level and of curriculum development.	1,3
	Demonstrated ability to develop an original research programme on your own initiative and to persuade others of its importance orally and on paper.	2,3
	Demonstrated ability to secure research and/or enterprise funds from external / company sources.	1,3
	Demonstrated ability to create social / cultural / economic impacts from professional activity.	2,3

	A clear trajectory towards achievements at a higher academic level.	1,2,3
	Excellent communication and interpersonal skills which give you the ability to engage with students, colleagues, business and other agencies on a wide variety of matters.	1,2,3
	Ability to work as part of and to lead a team.	2,3
Training	Commitment to and evidence of continuing professional development.	1,3
Qualifications	A PhD in Chemistry.	1
Other	Uphold and actively contribute to the University's commitment to Equity, Diversity and Inclusion.	1,3
	Fellow of the Higher Education Academy	1

Desirable Criteria: These are skills, experience and competencies that are additional extras that may be used to narrow the pool down if we receive a high volume of applications that meet the essential criteria.

Area	Criteria	Stage
Experience	Experience of work in or in collaboration within the relevant discipline of the School.	1
	Experience of presenting research work at international conferences.	1
	Experience in commercial exploitation of products / services or formation of social enterprises.	1,3
Skills and abilities	A sound understanding of the structure of universities and issues facing the UK higher education sector, for example: <ul style="list-style-type: none"> Research funding opportunities in UK HE. The challenges faced in recruiting students to UK HE. 	2,3 1
Qualifications	Achieved or progressing towards appropriate professional status.	1

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