



Job Description

Associate Professor in Chemical Sustainability

Chemistry

Grade: 9

Location: UCL East Campus, Stratford

Reports to

Head of Department

Context

UCL East

In our single biggest development since we were founded, UCL is expanding to east London. Located on the Queen Elizabeth Olympic Park, [UCL East](#) will be dedicated to disruptive thinking and discovery across disciplines and beyond academic walls, to find solutions to the biggest challenges for future living. We are located in Newham, east London - one of the most socially diverse parts of the UK – and we want our staff recruitment to reflect this.

Opening in 2022 and 2023, UCL East will unite academic activities across experiments, arts, society and technology, integrating research and education, theory and practice – with cross-disciplinarity, innovation and public engagement. More than just a conventional campus, UCL East represents a future focused mindset. We will deliver new research, technology and innovation, and undergraduate and postgraduate degree programmes for up to 4,000 students.

This post sits in the Manufacturing Futures Lab (MFL) in the Marshgate Building <https://www.ucl.ac.uk/ucl->

[east/academic-vision/manufacturing-futures-lab](#). The post will initially be based at UCL's Bloomsbury campus, or remotely during COVID-19. It will move to [UCL East](#) in late 2022.

Department of Chemistry, Mathematics and Physical Sciences (MAPS) Faculty

The Chemistry Department at UCL is one of the top-ranked departments in the UK, and is committed to supporting excellence in both research and teaching. The department offers undergraduate BSc and MSci programmes in Chemistry and currently teaches 750 undergraduates registered in Chemistry as well as students who select Chemistry on the Natural Sciences programme and first year Chemistry for life scientists. The Department also offers a number of Postgraduate Taught Masters courses with an overall PGR student school of about 250 students, and in addition to this a new Master's course is planned at the MFL. The Chemistry Department has over 60 members of academic staff carrying out world-leading research, with an annual research income of around £15 million, derived from many sources including UKRI (EPSRC, BBSRC, MRC, and NERC), European Commission and a wide range of charities and industrial partners in the UK, Europe and the USA.

In the Department we are pioneering novel green synthetic strategies for molecular assembly including the

discovery, enhancement and use of biocatalysts. The incorporation of renewable feedstocks into our synthetic methodologies is also of high priority. Other activities include sustainable approaches for plastics degradation and recycling, materials construction, energy storage and sustainable electrolytes

<https://www.ucl.ac.uk/chemistry/research/chemical-sustainability>. A multidisciplinary research ethos is fully embedded in our activities in the Department with highly innovative research programmes across Engineering and Bioscience Departments and elsewhere at UCL as well as nationally, internationally and with industry.

At the MFL, although it is an interdisciplinary academic entity it sits within UCL's MAPS and Engineering Faculties with the Departments of Mechanical, Chemical and Biochemical Engineering as well as Chemistry. Our vision is to conduct cross-cutting, multidisciplinary research that will have a deep impact across the chemical, pharmaceutical, energy, healthcare, transport and electronics sectors.

Main purpose of the job

The postholder will be expected to undertake a leading role in the development of chemical sustainability at the MFL and carry out world-class research to complement or expand the cross-cutting multidisciplinary activities of the MFL, UCL East and UCL; to raise funds in order to support their research programme, postdoctoral research staff and PhD students and to publish world-leading research; to lead the chemical sustainability Master's teaching programme at the MFL and perform the normal administrative duties expected of a member of academic staff.

Duties and responsibilities

- To develop a programme of original research and produce publications, or other research outputs, in the broad area of chemical sustainability.
- To lead and facilitate multidisciplinary research and teaching activities between Chemistry and the MFL at UCL East. Specifically, to establish a postgraduate Master's course at UCL East on chemical sustainability. To contribute to the MFL, Departmental, Faculty, or UCL-wide working groups or committees as requested.
- To seek and manage research grants to support their research programme in accordance with UCL Financial Regulations and the conditions of the funding body. To recruit, manage and lead researchers to support their research programme. To ensure that results are recorded, analysed and written up in a timely fashion and that reports are provided for funding bodies as required.
- To submit papers to appropriate journals and attend and present findings at appropriate conferences.
- To lead and assist in the development of the curriculum, learning materials, preparing schemes of work and maintain records to monitor student progress, achievement and attendance.
- To teach, at both undergraduate and graduate level as required including, laboratory and lecture courses and tutorials. To participate in the development, administration and marking of exams and other assessments. To provide pastoral care and support to students. Postholders supported by a fellowship will carry a teaching load in accord with the requirements of the fellowship.
- To supervise or assist with supervision of undergraduate, taught graduate (Masters) or research graduate (MPhil/PhD) students.

- Actively promote UCL East's academic values of interdisciplinarity, collaboration, and public engagement. To maintain own continuing professional development.
- This job description reflects present requirements. As duties evolve, it will be reviewed periodically with the post holder, and amended if necessary.
- The post holder will maintain awareness of, and actively follow, all UCL policies and Fire and Health & Safety Regulations.
- The post holder will support and advance UCL's equality diversity and inclusion ambitions.

General Information

Terms & Conditions of Employment

This is an open-ended post available from September 2021.

The post is a UCL grade 9 post, the salary for which ranges from £57,342 - £62,346 per annum (including London Allowance of £3,211 p.a.). Starting salary is usually £57,342.

Progression through the salary scale is incremental. Cost of living pay awards are negotiated nationally and are normally effective from 1st August each year. UCL's non-clinical pay and grading structure is at http://www.ucl.ac.uk/hr/salary_scales/final_grades.php.

Relocation Supplement

In addition to removal expenses a relocation supplement of £10,000 may be payable where it is necessary to relocate to take up an appointment at UCL. For more information please go to the link at:

<https://www.ucl.ac.uk/human-resources/relocation-scheme>.

General terms and conditions for Academic Staff

Please go to the link at: <https://www.ucl.ac.uk/human-resources/policies/2018/jan/conditions-service-academic-staff>

Equal Opportunities

We particularly welcome female applicants and those from an ethnic minority, as they are under-represented within UCL at this level

(www.ucl.ac.uk/hr/docs/equal_opportunity.pdf).

The Department has been awarded a Silver Athena Swan Award and we support the Athena beliefs that:

- The advancement of science, engineering and technology (SET) is fundamental to quality of life across the globe.
- It is vitally important that women are adequately represented in what has traditionally been, and is still, a male-dominated area.
- Science cannot reach its full potential unless it can benefit from the talents of the whole population, and until women and men can benefit equally from the opportunities it affords.

Further information on Athena Swan is at <http://www.athenaswan.org.uk/>

We intend to interview for this position in September 2021.

Informal enquiries should be addressed to Professor Claire Carmalt (Head of Department), c.j.carmalt@ucl.ac.uk or Professor Helen Hailes (Chemistry MFL Lead), h.c.hailes@ucl.ac.uk. Any queries on the application process can be directed to Nicola Phillips (hr.chem@ucl.ac.uk).

Apply

All applications should be submitted via UCL online recruitment system at the following link:

<http://www.ucl.ac.uk/hr/jobs>. Job reference: **1876870**

You can upload two documents with your application, please ensure this includes all of the following:

- CV;
- A list of major research achievements to date and a starred list of top five publications, together with a short description (100 words max) of their significance (2 page max). Full publication list;
- Two x 2 page (max) descriptions of the research plans you propose to pursue at UCL, including how the proposed research would contribute to the MFL and departments' research profiles;
- Teaching experience to date (1 page max).

UCL TERMS AND CONDITIONS

This appointment is subject to the UCL Terms and Conditions of service for Academic Staff. See

http://www.ucl.ac.uk/hr/salary_scales/conditionsof-service-academic-staff.pdf

Person Specification

Criteria	Essential or Desirable	Assessment method (Application/Interview)
Qualifications, experience and knowledge		
PhD in the Chemical Sciences (including Chemical Biology or Synthetic Biology).	Essential	Application
An appropriate background and research expertise to make significant contributions at the forefront of international research in chemical sustainability.	Essential	Application and interview
Knowledge of the fundamental principles of Organic Chemistry and the ability to teach Organic and Biological Chemistry at an undergraduate level and postgraduate level.	Essential	Application and interview
Experience in teaching sustainable chemistry at an undergraduate or postgraduate level.	Desirable	Application and interview
Experience working with education, public sector, or industry, for example on research co-production or public engagement.	Desirable	Application and interview
Experience supporting the development of students / PhD students / early career researchers / direct reports, through mentoring, sponsorship or personal tutoring.	Essential	Application and interview
Experience of leading positive culture change, or culture creation, within a discipline, department or organisation	Desirable	Interview
Skills and abilities		
Proven skills to conduct experimental work in chemical sustainability at an international level and in designing and delivering excellent, and inclusive undergraduate or postgraduate education.	Essential	Application and interview
Good interpersonal, oral and written communication skills.	Essential	Application and interview
Ability to raise research funding and produce original, rigorous research outputs.	Essential	Application and interview
Ability to work in an interdisciplinary environment.	Essential	Application and interview
Personal attributes		
An effective advocate for equality, diversity and inclusion.	Essential	Application and interview
Able to manage time and work to strict deadlines.	Essential	Application and interview

Criteria	Essential or Desirable	Assessment method (Application/Interview)
Keen to work collaboratively and as part of a team.	Essential	Application and interview
Keen to contribute to the development of the MFL and UCL East's academic vision.	Essential	Interview
Previous experience		
Significant role in developing teaching technologies, course design and assessment techniques (essential for Grade 9).	Essential	Application and interview
Record of raising research funding (essential for Grade 9).	Essential	Application
Successful supervision to completion of doctoral students (essential for Grade 9).	Essential	Application and interview
Sustained publication record which demonstrates the potential to produce significant contributions to the discipline (essential for Grade 9)	Essential	Application