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| Job Description |  |
| Lecturer in Chemical Sustainability  | Grade: 8  |
| Department: Chemistry  | Location: UCL East Campus, Stratford  |

#### Reports to:

**LONDON’S GLOBAL UNIVERSITY**

ucl FACULTY OF MATHEMATICAL & PHYSICAL SCIENCES

DEPARTMENT OF CHEMISTRY

Dr Daniele Castagnolo (Line Manager)

Prof. Claire Carmalt (Head of the Department of Chemistry)

#### Context

In our single biggest development since we were founded, UCL is expanding to east London. Located on the Queen Elizabeth Olympic Park, [UCL East](https://www.ucl.ac.uk/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,. It will move to [UCL East](https://www.ucl.ac.uk/ucl-east/campus) in late summer 2023.

**The Chemistry Department**

The Chemistry Department at UCL is one of the top-ranked departments in the UK, with 100% of its outputs ranked as being world-leading (4\*) or internationally excellent (3\*) in the recent REF2021. The Department 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 about 100 students per year, and in addition to this a new Master’s course in Chemical Sustainability will start in September 2023 at the MFL. The Department has a PhD student school of around 200 students. The Chemistry Department has over 65 members of academic staff carrying out world-leading research, with research income 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. A multidisciplinary research ethos is fully embedded into 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.

Details about our research can be found on the departmental website: <http://www.ucl.ac.uk/chemistry> and for chemical sustainability: <https://www.ucl.ac.uk/chemistry/research/chemical-sustainability>

#### Main Purpose of the job

The Department of Chemistry seeks to appoint a lecturer in the general area of sustainable chemistry.

* 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.
* The postholder will be expected to raise funds in order to support their research programme, postdoctoral research staff and PhD students and to publish world-leading research
* The postholder will be expected to contribute to 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 contribute to teaching 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 organic and green chemistry, biochemistry and synthetic biology, 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.
* To supervise or assist with the supervision of undergraduate, taught graduate (Masters) or research graduate (MPhil/PhD) students.
* To actively promote UCL and 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**

The post is a UCL grade 8 post, the salary for which ranges from £47,414 to £58,949 per annum (including London Allowance of £4,000 p.a.). Starting salary is usually £47,414

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>.

UCL’s Conditions of Service for Academic Staff:

<https://www.ucl.ac.uk/human-resources/policies/2021/jun/conditions-service-academic-staff>

The full range of benefits is at <http://www.ucl.ac.uk/hr/benefits/employee_benefits.php>

**General information for Overseas Applicants**

<https://www.ucl.ac.uk/human-resources/working-ucl/employment-contract-administration-team/immigration>

<https://www.ucl.ac.uk/human-resources/working-ucl/relocating-uk-guide>

**Equal Opportunities**

[www.ucl.ac.uk/hr/docs/equal\_opportunity.pdf](http://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/>

**Informal enquiries** should be addressed to Dr Daniele Castagnolo (Chemistry MSc Chemical Sustainability Lead), d.castagnolo@ucl.ac.uk, and Prof Helen Hailes (Chemistry MFL Team Lead), h.c.hailes@ucl.ac.uk. Any queries on the application process can be directed to Rezwana Akhter (Senior HR Administrator), hr.chem@ucl.ac.uk

# Person specification – Lecturer (Teaching)

| **Criteria** | **Essential or Desirable** | **Assessment Method (Application/ Interview)** |
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| **Qualifications, Experience and Knowledge**  |  |  |
| Undergraduate degree in Chemistry or relevant related discipline. | Essential | Application |
| PhD in Chemistry (including Chemical Biology, Synthetic Biology, or equivalent) | Essential | Application |
| GCSE English Grade C or above (or equivalent, e.g. IELTS) | Essential | Application |
| An appropriate background and research expertise in Organic and Green Chemistry and in Chemical Biology (including Synthetic Biology) to make significant contributions at the forefront of international research in chemical sustainability. | Essential | Application/Interview |
| Knowledge of the fundamental principles of Organic and Sustainable Chemistry and the ability to teach Organic Chemistry, Green Chemistry and Biological Chemistry (including Molecular Biology and Synthetic Biology) at an undergraduate level and postgraduate level. | Essential | Application/Interview |
| Experience in the delivery of organic and biological chemistry laboratory courses/practicals at undergraduate or postgraduate degree level | Essential  | Application/Interview |
| Comprehensive information and communication technologies skills | Essential | Application/Interview  |
| Experience of leading positive culture change, or culture creation, within a discipline, department or organisation | Desirable | Application/Interview |
| Experience in the use and delivery of e-learning platforms | Desirable | Application/Interview |
| Experience of developing, or contributing to the development, of a course/module | Desirable | Application/Interview  |
| **Skills and Abilities**  |  |  |
| Proven skills to conduct experimental work in chemical sustainability at an international level  | Essential | Application/Interview |
| Good interpersonal, oral and written communication skills. | Essential | Application/Interview |
| Ability to work in an interdisciplinary environment. | Essential | Application/Interview |
| Ability to raise research funding and produce original, rigorous research outputs. | Desirable | Application/Interview |
| Skills in designing and delivering excellent, and inclusive undergraduate or postgraduate education. | Desirable | Application/Interview |
| Ability to prioritise and organise own workload | Essential | Application/Interview |
| Ability to work under pressure and to meet time-critical schedules | Essential | Application/Interview |
| **Personal Attributes**  |  |  |
| An effective advocate for equality, diversity and inclusion. | Essential | Application/Interview |
| Able to manage time and work to strict deadlines. | Essential | Application/Interview |
| Keen to work collaboratively and as part of a team. | Essential | Application/Interview |
| Keen to contribute to the development of the MFL and UCL East’s academic vision. | Essential | Application/Interview |
| **Previous experience** |  |  |
| Role in developing teaching technologies, course design and assessment techniques  | Desirable | Application and interview |
| Record of raising research funding  | Desirable | Application |
| Supervision of master or doctoral students  | Desirable | Application and interview |
| Sustained publication record which demonstrates the potential to produce significant contributions to the discipline  | Essential | Application  |

**NOTE:** This job description reflects the present requirements of the post, and as duties and responsibilities change/develop, the job description will be reviewed and amended in consultation with the post-holder.

# Apply

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| To apply for this position visit:ucl.ac.uk/jobs |

**Enquiries / Visits**

Informal enquiries should be made to: Dr Daniele Castagnolo (Chemistry MSc Chemical Sustainability Lead), d.castagnolo@ucl.ac.uk, and Prof Helen Hailes (Chemistry MFL Team Lead), h.c.hailes@ucl.ac.uk

**Applications should be completed online** [**http://www.ucl.ac.uk/hr/jobs/**](http://www.ucl.ac.uk/hr/jobs/),

Any questions about the application process should be directed to: hr.chem@ucl.ac.uk

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, a publications list, together with a short description (100 words max) of 2 key papers;
* 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).