

JOB DESCRIPTION:

Lecturer/Senior Lecturer in Organic Chemistry



Ref Number:	NATS-170-22
Salary Scale:	Grade 7: £36,386 - £40,931 per annum Grade 8: £44,737 - £50,300 per annum Grade 9: £53,353 - £60,027 per annum
Contract:	Ongoing and Full-Time
Division:	Natural Sciences
School:	Chemistry and Forensic Science
Location:	University of Kent, Canterbury Campus
Responsible to:	Head of Chemistry and Forensic Science
Expected start date:	January 2023

The Role

The Division of Natural Sciences at the University of Kent is looking to appoint an exceptional and committed individual with significant experience in the field of Organic Chemistry. We are looking for a dedicated scholar who is keen to make a strong contribution to both research and teaching in this area. The successful applicant will contribute to the delivery of teaching on both our undergraduate and postgraduate programmes in the School of Chemistry and Forensic Science (<https://www.kent.ac.uk/chemistry-forensic-science>). In particular, the post holder will be expected to provide teaching in the area of organic chemistry.

In addition to previous teaching experience, the post holder should have a clearly defined research agenda with a track record or clear potential to publish in top peer-reviewed journals and be able to contribute to research student supervision. The successful candidate will join one of the Supramolecular, Interfacial, and Synthetic Chemistry (SISC) group (<https://research.kent.ac.uk/sisc/>). Research in this group includes synthesis, self-assembling materials, stimuli-responsive systems, and molecular and macromolecular bio-active systems. It is hoped that whilst complementing the current research activities, the successful candidate will initiate new avenues of research within other Schools in the Division. We particularly encourage candidates whose chemical research interests relate to biology (e.g. chemical biology, biomaterials, drug synthesis, controlled delivery, anti-microbial agents) to build upon existing collaborative strengths between the School of Chemistry and Forensic Science and the School of Biosciences (<https://www.kent.ac.uk/biosciences>).

The Division of Natural Sciences runs comprehensive analytical and materials characterisation laboratories that provide chemical, biological, and forensic services to industry as well as its undergraduate and research programs. The School of Chemistry and Forensic Science has recently invested heavily in facilities, which include two 400 MHz NMR

instruments, Raman spectrometry, two SEMs, four X-ray diffractometers for both powder and single crystal samples, a magnetometer including helium recovery facilities, dynamic light scattering, rheometry, PCR, and a range of chromatography instruments (HPLC, GC-MS, LC-MS). Other available facilities in the wider Division include AFM, CD spectroscopy, MALDI-TOF, fluorimetry, microscopy, and specialist biomolecular analytical instruments.

Key Accountabilities / Primary Responsibilities

- To deliver and contribute to the design of high-quality, demand-driven, and student-centred taught programmes to both Chemistry and Forensic Science undergraduates.
- To engage in individual and collaborative research and scholarship leading to high-quality publications at acceptable levels of volume and academic excellence, and develop income from research, enterprise, or corporate engagement individually or in collaboration with others.
- To contribute fully to the Division and University by participating in meetings, working groups, committees, and other Division and University activities.

Key Duties

Teaching and Learning

- Deliver high quality teaching as a member of the teaching team to both Chemistry and Forensic Science students within a suite of well-established programmes of study.
- Construct and supervise final year BSc and MSci, and taught master's student research projects.
- Teach in a variety of settings from small group sessions to large lectures and deliver blended material where appropriate.
- Transfer knowledge in the form of practical skills, methods, and techniques.
- Identify the learning needs of students and define appropriate learning objectives.
- Ensure that content, methods of delivery, and learning materials will meet the defined learning objectives and requirements of the accrediting bodies.
- Develop own teaching materials, methods, and approaches with guidance.
- Challenge thinking, foster debate, and develop the ability of students to engage in critical discourse and rational thinking.
- Select appropriate assessment instruments and criteria, assess the work and progress of students by reference to the criteria, and provide constructive feedback to students.

Research and Scholarship

- Contribute to the research profile of the School by producing research that is of international standard.
- Identify sources of funding and contribute to the process of securing funds to support research activities.
- Extend, transform, and apply knowledge acquired from scholarship to teaching, research and appropriate external activities.
- Write or contribute to publications or disseminate research findings in peer reviewed journals or using other appropriate media.
- To manage research projects, including the financial oversight where necessary.
- To supervise research students and research assistants where necessary.

Lecturer in Chemistry
School of Physical Science

- To attend, and present research findings and papers at, academic and professional conferences, and to contribute to the external visibility and reputation of Chemistry at Kent.

The successful applicant will be expected to engage on a continuous and meaningful basis with colleagues in the subject area and contribute to a cohesive and collegial work environment. They will also be expected to conduct other duties, commensurate with the grading of the post, that may be assigned by the Head of Chemistry and Forensics, or their nominee, and in line with the overarching needs of the Division of Natural Sciences.

Health, Safety & Wellbeing Considerations

This role involves undertaking duties which include the Health, Safety, and wellbeing issues outlined below. Please be aware of these, when considering your suitability for the role.

- Regular use of Screen Display Equipment
- Working with chemicals (incl. requirement to wear PPE e.g. gloves, and incl. work with CO₂, Ar, or N₂ gasses)
- Working with radiation

Internal & External Relationships

Internal: Division of Natural Sciences and wider university staff and students.

External: Funding bodies, potential research and enterprise partners, research colleagues, professional bodies and prospective students and their families.



Person Specification

The person specification details the necessary skills, qualifications, experience, or other attributes needed to carry out the job. Applications are assessed against each of the criteria either at application or interview stage. Applications will be deemed unsuccessful if an essential criterion is not met. This may also help you self-select if you are suitable for the role.

Selection panels will be looking for clear **evidence** and **examples** in your **CV, research proposal and cover letter** submitted along with your application which support any assertions you make in relation to each criterion.

a = Senior Lecturer, b = Lecturer

Qualifications / Training	Essential	Desirable	Assess via*
A PhD (or close to completion) or evidence of significant and relevant experience in Chemistry, Biochemistry, or an appropriate discipline	✓		A
A relevant teaching qualification (e.g. PGCHE). Candidates without qualification will be expected to obtain one as part of their probation		✓	A

Experience / Knowledge	Essential	Desirable	Assess via*
Possess sufficient breadth and depth of specialist knowledge in chemistry to work within established teaching programmes.	✓		A, I, & P
Evidence of research excellence in area of expertise including publications in internationally competitive journals and conference presentations (at Senior lecturer level <i>sustained</i>).	✓		A, I, & P
Evidence of income generation (e.g., through research grants, enterprise activity, consultancy, etc.)	✓ _a	✓ _b	A

Skills / Abilities	Essential	Desirable	Assess via*
Excellent teaching skills, appropriate to the development and delivery of undergraduate and postgraduate teaching in chemistry.	✓		A & P
The ability to develop, deliver, and supervise high quality undergraduate and postgraduate research projects in the field of chemistry.	✓		A & I

Lecturer in Chemistry
School of Physical Science

Ability to design taught programmes at undergraduate and postgraduate levels.		✓	I
Excellent interpersonal, presentation, and communication skills.	✓		I & P

Additional Attributes	Essential	Desirable	Assess via*
Evidence of, and a personal commitment to, developing excellent research.	✓		A & I
Willingness to engage in continuous professional development.	✓		A & I
Ability to collaborate with colleagues within and beyond the School.	✓		I

*Criterion to be assessed via:

- A = application form, CV, research proposal, cover letter
I = interview questions
P = presentation at interview