The UK's European university

University of Kent

LABORATORY SCIENTIST DEGREE APPRENTICESHIP

with BSc (Hons) in Applied Chemical Sciences

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Degree apprenticeships are a partnership between the University and you, the employer.

You employ the apprentice, pairing them with experienced staff. We work with you to:

- provide an academic programme of study (20% of the apprentice's paid hours should be spent on off-the-job study)
- help design on-the-job training plans
- support both on- and off-the-job training through regular workplace visits.

Taken together, these equip apprentices with the theoretical and practical knowledge and skills most useful to your organisation.

Apprenticeship Standard

The Applied Chemical Sciences BSc academic programme at Kent underpins the Laboratory Scientist (Degree) Apprenticeship Standard (Level 6).

The Standard has been developed by a group of employers and approved by the government to ensure that apprenticeships are delivered and assessed consistently. It outlines the skills, knowledge and behaviours required of the apprentice.

An alternative academic programme, Applied Biosciences (BSc), is available.

Applied Chemical Sciences FdSc and Applied Bioscience FdSc are academic programmes available to underpin the Technician Scientist (Level 5) apprenticeship*. Please contact the Centre for further details.

Standard profile

A fully competent Laboratory Scientist will be able to work in a wide range of organisations including (but not exclusively), chemical, pharmaceutical, biotechnology, formulated products, nuclear and analytical services.

A scientist can carry out a range of technical and scientific activities which may include laboratory-based investigations and scientific experimentation in their specialist field. They will:

- analyse, interpret and evaluate relevant scientific information, concepts and ideas and use these to develop subsequent experiments or investigations and to propose solutions to problems
- be able to perform practical, established and novel laboratory procedures using standard and specialist laboratory equipment and instrumentation
- work autonomously on defined projects under the supervision of a senior scientist and as part of a wider scientific team, which may include laboratory technologists and laboratory technicians
- be proactive in finding solutions to problems, be able to identify areas of business improvement and propose innovative scientific ideas.

Typical job roles for apprentices who have studied applied chemical sciences include: Research and Development Scientist, Analytical Chemist, Medicinal Chemist and Process Scientist.

Qualifications

The apprenticeship is underpinned by our Applied Chemical Sciences BSc qualification. On completion of the end-point assessment, apprentices will hold an honours degree.

Qualification pathway

The table to the right shows the modules the apprentice will typically study in each year. For the award of a BSc (Hons) bachelor's degree, apprentices must accrue 360 credits as detailed in the table.

Please note: the module lists for each year are not fixed as new modules are always in development and choices updated yearly. See www.kent.ac.uk/ug for the most up-to-date information.

Entry requirements

The University requires applicants to hold at least five GCSE passes (or equivalent), including English Language and Mathematics at grade 4 or above. They are also required to have achieved at least two subjects at A level (or equivalent), including Chemistry. Alternatively, applicants must have completed a Level 3 Laboratory Technician Apprenticeship in a relevant science discipline.

*Please note: Technician Scientist Standard (Level 5) is currently in development awaiting final funding band approval.

Applicants without traditional qualifications are considered on an individual basis.

Start date and duration

The apprenticeship can start at any point in the calendar year, with the apprentice registering for their degree in September, January or April.

The programme is offered via blended learning – a mixture of online and face-to-face learning, depending on the employer's needs and wishes.

It is anticipated that the duration of the apprenticeship will be five years, including the end-point assessment, but this will depend on prior qualifications and relevant work experience.

Cost

Each apprenticeship is tailored to the needs of the apprentice and their employer. For further information including a quote, please contact us.

Contact

Get in touch with our team:
E: apprenticeships@kent.ac.uk
T: 01634 888459 or 888467

Centre for Higher and Degree Apprenticeships,
University of Kent,
Clock Tower Building,
Historic Dockyard Chatham
Chatham, Kent ME4 4TE

Year one

Apprentices take five compulsory modules, each worth 15 credits:

15	Basic Analytical Chemistry
15	Basic Laboratory Skills
15	General and Inorganic Chemistry
15	Organic Chemistry
15	Physical Chemistry

75 credits

Year two

Apprentices take five compulsory modules, each worth 15 credits:

15	Advanced Laboratory Skills
15	Biochemistry
15	Business Improvement
15	GXP (Business module)
15	Introduction to Polymer Chemistry

75 credits

Year three

Apprentices complete:

45	Company-based project

Plus three compulsory modules from the following list, each worth 15 credits:

15	Introduction to Drug Synthesis
15	Introduction to Nanomaterials
15	Pharmacology
15	Separation Science
15	Spectroscopic Methods in Organic Chemistry

90 credits

Year four

Apprentices complete:

15	Drug Discovery and Development
15	Research Methods

Plus three modules from the following list, each worth 15 credits:

15	Advanced Therapeutic Agents
15	Analytical Chemistry
15	Computational Chemistry
15	Nanomedicine

75 credits

Year five

Apprentices complete:

45	Laboratory Project

45 credits **360 total credits**

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WANT TO FIND OUT MORE?

Contact us on:
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www.kent.ac.uk/apprenticeships

University of Kent