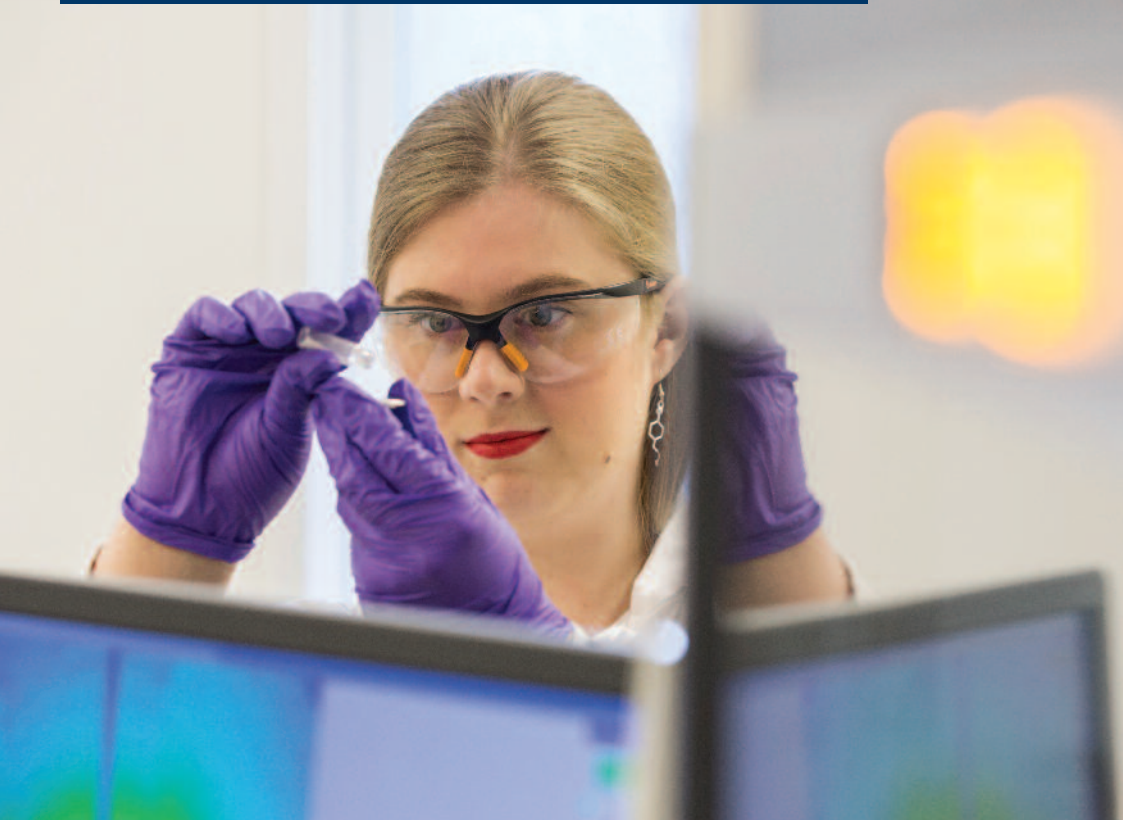


TECHNICIAN SCIENTIST HIGHER APPRENTICESHIP

with FdSc in Applied Chemical Sciences



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Higher 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 FdSc academic programme at Kent underpins the Technician Scientist Standard (Level 5).

Apprenticeship Standards are developed by groups of employers and approved by the government to ensure that apprenticeships are delivered and assessed correctly. The Technician Scientist Standard (Level 5) outlines the skills, knowledge and behaviours required of an apprentice in this field. The Standard is currently in development and awaiting final funding band approval.

An alternative academic programme, Applied Bioscience FdSc, is available.

Applied Chemical Sciences BSc and Applied Bioscience BSc are academic programmes available to underpin the Laboratory Scientist (Level 6) apprenticeship. Please contact the Centre for further details.

Standard profile

Technician Scientists work in a wide range of organisations, including, but not exclusively, chemical, primary and secondary pharmaceutical, biotechnology, formulated products and nuclear companies, and analytical science services.

A Technician Scientist may carry out both routine and one-off laboratory testing and perform a variety of technical support functions across the organisation. Technician Scientists are expected to work both individually and as part of a laboratory team.

They will:

- work safely in a laboratory, maintaining excellent housekeeping whilst following appropriate safety, environment and risk management systems
- understand and follow quality procedures to meet the requirements of quality standards relevant to the workplace

- demonstrate technical competence in the use of specified instrumentation and laboratory equipment, including calibration where required
- analyse, interpret and evaluate data and identify results requiring further investigation, seeking advice of senior colleagues as appropriate
- communicate scientific information appropriately, including the use of Laboratory Information Management systems, either digital or paper based.

Typical job roles for apprentices who have studied Applied Chemical Sciences include: Analytical Support Chemist, Laboratory Assistant, Senior Laboratory Technician, Assistant Scientist, Technical Specialist (Scientist), Quality Control Laboratory Assistant, Laboratory Research Assistant, Laboratory Analyst, or Process Development Technologist.

Qualifications

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

Qualification pathway

The table to the right shows the modules the apprentice will typically study in each year.

For the award of foundation degree, apprentices must accrue 240 credits during Years one, two and three.

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.

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.

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 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

240 total credits

It is anticipated that the duration of the apprenticeship will be three years three months, 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:
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T: 01634 888459 or 888467

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