



UNIVERSITY
OF HULL

LABORATORY
SCIENTIST
DEGREE
APPRENTICESHIPS

**READY
WHEN
YOU
ARE.**



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READY TO TAKE YOUR CAREER IN LABORATORY SCIENCE FURTHER?

WE ARE.

Combining study and full-time work, a degree apprenticeship in Laboratory Science will open up exciting possibilities for careers in chemical sciences and beyond.

Join a university with a proud history of working alongside the scientific industries to provide advanced education and training opportunities.

With high-quality teaching and flexible blended learning, apprentices will explore the wide-ranging discipline of Laboratory Science to make an impact on an ever-expanding industry.

The specifics

Duration: Usually between 36 and 60 months (dependent on the pathway chosen and on prior knowledge and experience).

Level: 5 and 6

Suitable for:

Anyone looking to advance in the wide range of organisations in which Laboratory Scientists work, such as chemical, pharmaceutical, formulated products, nuclear and analytical services. Roles could include, but aren't limited to:

- > Analytical Chemist
- > Research & Development Scientist
- > Molecular Biologist
- > Microbiologist
- > Formulation Scientist
- > Medicinal Chemist
- > Process Technologist
- > Biotechnologist.

WHAT IT MEANS FOR YOUR BUSINESS

Degree apprenticeships aren't just beneficial for employees - they mean great things for employers too.

They'll increase the company skillset

Apprentices will bring their newfound knowledge back to their colleagues, keeping businesses at the top of their game.

They advance the industry

As one business grows and develops, its competitors must try to keep up - leading to new discoveries, advanced technology and progression across the entire sector.

They attract the best new talent

New recruits will be drawn to a business that cares about their progression. For hard-working, motivated individuals, the opportunity to learn while working will be a big benefit.

They boost morale, motivation and productivity

Because employees feel valued when they know they're being invested in - and are more likely to stay where they are, and keep giving back.

How is it delivered?

The apprenticeship is delivered through a range of activities including online learning, workplace progress reviews, mentoring (both within the university and in the workplace), self-directed study and research, portfolio building and work-based projects.

If you choose the full 5 year programme, in the first 4 years there will be two full-day workshops on campus per trimester, and a full week of on-campus laboratory classes. These will usually take place in the last full working week before Easter. These workshops and classes give apprentices the best opportunity to put theory into practice and take full advantage of our university staff's knowledge and experience.

How is it assessed?

To complete the course, apprentices will take an End Point Assessment with an external organisation. This assessment will take a number of things into account, including behaviour evaluation logs, synoptic project presentations, a vocational competence interview and scenario case studies.



WHAT DOES IT INVOLVE?

Apprentices on this programme have three types of qualification open to them.

- > FdSc Chemical Sciences (3 years)
- > BSc (Hons) Chemistry (5 years)
- > BSc (Hons) Chemistry (2 years)*.

Applicants must choose their pathway (either the 3-year FdSc or BSc) at the start of the programme, as apprentices who complete the FdSc cannot then access the BSc "top-up" route through this apprenticeship.

*This is only open to apprentices who have previously completed a relevant level 5 qualification, and have appropriate experience.



FdSc Chemical Sciences (3 years)

This programme is taught in three semesters per year.

Semester 1 - September to January - and Semester 2 - February to May - are both concerned with academic, university-focused learning. In Semester 3 - June to August - the focus is on a work based project, although this can also be carried out throughout the year if desired.

BSc Chemistry (5 years)

If an apprentice chooses to take the full honours degree, there is one module in each Semester of years 4 and 5. These years will have essentially the same content as the final year of the full-time BSc (Hons) Chemistry course, spread over two years of blended learning.

Semester 1 and 2 modules cover advanced topics such as:

- > Analytical, Inorganic, Organic and Physical Chemistry
- > NMR, MS and XRD
- > Advanced Organometallic Chemistry
- > Metals in Organic Chemistry
- > Colloids
- > Surfactants.

Semester 3 of year 4 involves advanced laboratory classes, as well as a literature review. In Semesters 1 and 2 of both years, assessments will be made by a written exam (70%) and two problem-solving assessments (30%). Semester 3 modules of both years will be assessed continually through assignments and written reports.



WHAT ARE THE OUTCOMES?

By the end of the programme, apprentices will be able to show that they have developed their skills and understanding of the field to an appropriate level.

This includes:

- > An understanding and application of the advanced science and technology required to progress in the apprentices' specialism, including the principles of laboratory techniques and processes
- > The ability to prepare for and perform laboratory tasks using the correct techniques, safety procedures and risk management systems
- > An understanding of industry regulations, ethical practices and codes of conduct
- > The use of creative thinking and problem solving to advance the field, innovate, challenge assumptions and build on existing ideas
- > The ability to plan and prioritise tasks, identify customer requirements, and promote quality standards at all times.

They will also demonstrate the following behaviours in the workplace:

Communication

With both scientific and non-scientific audiences, including active listening, professional writing and body language, and scientific presentation skills.

Attitude

Apprentices will demonstrate reliability, integrity and respect for confidentiality at all times - including appropriate use of social media and information systems.

Working Style

Apprentices will show that they can work both autonomously and in a multi-disciplinary team, showing at all times an understanding of the impact of their work on others, especially in relation to diversity and equality.

Self-management and development

This includes the ability to manage time effectively, and to plan and schedule work accordingly. It also covers the ability to handle change, respond to management processes, and take responsibility for personal development and improvement.

Apprentices must also show their development in the specialist area of Chemical Science, including:

- > An understanding of the theory and how to implement it
- > The ability to prepare for and perform laboratory tasks using appropriate techniques
- > The identification of appropriate approaches to solve problems, support new investigations and implement follow up experiments in the laboratory.



WHAT ARE THE ENTRY REQUIREMENTS?

Alongside general requirements, applicants must also have:

- > A Level Chemistry or an equivalent Level 3 Qualification (such as BTEC Applied Science)
- > Level 2 Maths and English
- > A job within the chemical science or related industries
- > A written letter of recommendation from the employer, outlining the applicant's suitability.

In every case, we try to be as flexible as possible - so please contact us to talk about your options.

APPRENTICE SUPPORT

Combining study with full-time work can be challenging.

At the University of Hull, we understand that apprentices need support, and we do all we can to help.

That's why all Laboratory Science degree apprentices are assigned a named academic support tutor, who will provide mentoring and portfolio support, work place progression reviews and end of year progression reviews.

We also request that all apprentices have a named employer mentor during their time on the course, to provide guidance and support in the workplace.

And because we understand that mature apprentices' needs are different to those of a traditional undergraduate, we also offer access to a Mature Student Adviser for apprentices aged 21 and over.

Apprentices at the University of Hull also have full access to:

- > The Student wellbeing, learning and welfare support team
- > The Skills Team (Brynmor Jones Library)
- > AskHU (Student services centre)
- > The Apprenticeship team.



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Contact us

Employees:

Contact your HR Manager
to discuss your options

Employers:

Contact our Apprenticeships team,
on apprenticeships@hull.ac.uk
or 01482 466373