

# WELCOME TO SCIENCE AT KIRKLEES COLLEGE

## T LEVEL – SCIENCE: LABORATORY SCIENCES

### COURSE OVERVIEW

This exciting new T Level qualification has been designed to help young people develop the required knowledge, skills and behaviours needed to prepare them for a future career in laboratory science.

#### TOPICS COVERED

- Working within the health and science sector
- General regulation and processes in health and science sector
- Health, safety and environmental regulations
- Managing information and data
- Ethics of science and how it influences the work undertaken by organisations
- Principles of good scientific and clinical practice
- Scientific methodology
- Experimental equipment and techniques
- Biology, Chemistry and Physics equivalent to A-level standard
- Practical skills including: Performing a range of appropriate scientific techniques. Plan, review, implement and suggest improvements, and Identify and resolve issues with scientific equipment or data errors

#### ASSESSMENT

T Levels are exam-based. In the first year, students will sit two core knowledge exam papers in June. They will also complete an employer-set project, which contains controlled assessments.

In the second year, students complete an occupational specialism assessment, demonstrating application of the relevant knowledge, skills and behaviours for the occupation.

#### INDUSTRY PLACEMENT

To achieve the T Level qualification students are required to undertake an industry placement for a minimum of 315 hours.

Placement will start in the second year and be taken in a block of weeks to give students the chance to get extensive experience in the science industry.

Industry placements are a mandatory aspect of the T Level where students are required to work towards achieving set learning goals for their T Level certificate to be awarded.

**[Click here to see an example of the industry placement objective, typical activities, and learning goals to be achieved by a student.](#)**



# SUPPORT

A dedicated Work Experience Coach will:

- Support employers to match with the right student and help plan the industry placement. They provide ongoing support for the duration of the placement and monitor the student's progress towards their learning goals
- Support students to prepare for their placement and develop the skills and behaviours needed to successfully complete



# FINANCIAL SUPPORT

- Employers may be able to access funding to overcome barriers to providing an industry placement
- Students can access help for travel and some other costs associated with attending their placement

Additional support is available to enable learners with specialist educational needs and disabilities to access and successfully complete a quality industry placement.



# CAREER PROGRESSION

After completing a T Level, students can progress on to an apprenticeship or to university, as a number of major UK universities accept T Levels. T Levels students can also progress to employment in the following roles:

- Laboratory Technician
- Technical Support Scientist
- Laboratory Assistant
- Medical Laboratory Assistant
- Quality Control Laboratory Technician

