

OCR A

A Level Chemistry

and

Careers in Chemistry

Find examples of the most relevant careers for subsections of the curriculum and link through to up to five job profiles for further information. The profiles will give your students real world examples of jobs in the aspects of chemistry they enjoy most. They are written by teachers for teachers.

Simply click on the job title to go to the job profile on
A Future in Chemistry.

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Module 1 Development of practical skills in chemistry

1.2 Practical skills assessed in the practical endorsement

1.2.1 Practical skills

- › [Bioleaching lab technician](#)
- › [Medicinal chemist](#)
- › [Pollution control officer](#)
- › [Research fellow, battery recycling](#)
- › [Scientist, food and pharmaceuticals](#)

1.2.2 Use of apparatus and techniques

- › [Bioleaching lab technician](#)
- › [Medicinal chemist](#)
- › [Pollution control officer](#)
- › [Research fellow, battery recycling](#)
- › [Scientist, food and pharmaceuticals](#)

Module 2 –Foundations in chemistry

2.1 Atoms and reactions

2.1.1 Atomic structure and isotopes

- › [Chemistry engineer, nuclear](#)
- › [Executive editor, scientific publishing](#)
- › [Radioactive waste consultant](#)

2.1.2 Compounds, formulae and equations

- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)
- › [Technical services chemist, cosmetics](#)

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2.1.3 Acids

- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

2.1.4 Redox

- › [PhD researcher](#)
- › [Secondary school science teacher](#)
- › [Scientist, food and pharmaceuticals](#)

2.2 Electrons, bonding and structure

2.2.2 Bonding and structure

- › [Analytical technician, plastics](#)
- › [Science communicator](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Senior software developer](#)
- › [Computational toxicologist](#)

Module 3 Periodic table and energy

3.1 The periodic table

3.1.1 Periodicity

- › [PhD researcher](#)
- › [Senior curator](#)
- › [Secondary school science teacher](#)

3.1.4 Qualitative analysis

- › [Museum scientist](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

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3.2 Physical chemistry

3.2.1 Enthalpy changes

- › [Chemistry engineer, nuclear](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Director](#)
- › [Secondary school science teacher](#)

3.2.2 Reaction rates

- › [Chemistry engineer, nuclear](#)
- › [Secondary school science teacher](#)
- › [Chief executive officer](#)
- › [Senior principal scientist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)

Module 4 –Core organic chemistry

4.1 Basic concepts and hydrocarbons

4.1.1 Basic concepts of organic chemistry

- › [Microplastics toxicologist](#)
- › [Principal air quality consultant](#)

4.1.2 Alkanes

- › [Principal air quality consultant](#)

4.1.3 Alkenes

- › [Chief executive officer](#)
- › [R&D chemist](#)
- › [Head of research and sustainability](#)
- › [Senior science manager](#)
- › [Market development manager](#)

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4.2 Alcohols, haloalkanes and analysis

4.2.1 Alcohols

- › [Secondary school science teacher](#)
- › [Senior science manager](#)

4.2.3 Organic synthesis

- › [Bioleaching lab technician](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Laboratory scientist apprentice](#)
- › [Technical services chemist, cosmetics](#)
- › [Medicinal chemist](#)

4.2.4 Analytical techniques

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Pollution control officer](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

Module 5 –Physical chemistry and transition elements

5.1 Rates equilibria and pH

5.1.1. How fast?

- › [Chemistry engineer, nuclear](#)
- › [Chief executive officer](#)
- › [Secondary school science teacher](#)
- › [Senior principal scientist](#)

5.1.3. Acids, bases and buffers

- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

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5.2 Energy

5.2.2 Enthalpy and entropy

- › [Chemistry engineer, nuclear](#)
- › [Secondary school science teacher](#)
- › [Director](#)

5.2.3 Redox and electrode potentials

- › [PhD researcher](#)
- › [Scientific consultant](#)
- › [Professor and enterprise, partnerships and innovation lead](#)
- › [Solar technology engineer](#)
- › [Research fellow, battery recycling](#)

5.3 Transition elements

5.3.1 Transition elements

- › [Bioleaching lab technician](#)
- › [Product and process development manager](#)
- › [Environmental process specialist](#)
- › [Project manager, world gold council](#)
- › [Laboratory scientist apprentice](#)

5.3.2 Qualitative analysis

- › [Museum scientist](#)
- › [Secondary school science teacher](#)
- › [Professor of environmental chemistry](#)
- › [Senior laboratory technician](#)
- › [Scientist, food and pharmaceuticals](#)

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Module 6 –Organic chemistry and analysis

6.1 Aromatic compounds, carbonyls and acids

6.1.1 Aromatic compounds

- › [Analytical technician, plastics](#)
- › [Associate principal scientist, food](#)
- › [Flavourist and innovation director](#)
- › [Nanotoxicologist](#)

6.1.2 Carbonyl compounds

- › [Associate principal scientist, food](#)
- › [Flavourist and innovation director](#)

6.1.3 Carboxylic acids and esters

- › [Associate principal scientist, food](#)
- › [Flavourist and innovation director](#)

6.2 Nitrogen compounds, polymers and synthesis

6.2.2 Amino acids, amides and chirality

- › [Medicinal chemist](#)
- › [Senior laboratory technician](#)

6.2.3 Polyesters and polyamides

- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Section leader, wind](#)
- › [R&D chemist](#)
- › [Senior research and development scientist](#)
- › [Research scientist, microplastics](#)

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6.2.5 Organic synthesis

- › [Chief executive officer](#)
- › [Medicinal chemist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Technical services chemist, cosmetics](#)

6.3 Analysis

6.3.1 Chromatography and qualitative analysis

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior science manager](#)
- › [Soil scientist](#)
- › [University laboratory technician apprentice](#)

6.3.2 Spectroscopy

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Qualified Person, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Soil scientist](#)
- › [Teaching technical specialist](#)