

WJEC

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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AS Unit 1 –The language of chemistry, structure of matter

1.1 Formulae and equations

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

1.2 Basic ideas about atoms

- › [Chemistry engineer, nuclear](#)
- › [Radioactive waste consultant](#)
- › [Research assistant](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)

1.3 Chemical calculations

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Analytical chemist](#)
- › [Chemistry engineer, nuclear](#)
- › [Medicinal chemist](#)
- › [Scientist, food and pharmaceuticals](#)

1.4 Bonding

- › [Analytical technician, plastics](#)
- › [Bionanotechnology PhD student](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Computational toxicologist](#)
- › [Technical services chemist, cosmetics](#)

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1.5 Solid structures

- › [Bionanotechnology PhD student](#)
- › [Senior software developer](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Technical services chemist, cosmetics](#)
- › [Professor and enterprise, partnerships and innovation lead](#)

1.6 The periodic table

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Museum scientist](#)
- › [Chemistry engineer, nuclear](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Development chemist, printing and inks](#)

1.7 Simple equilibria and acid-base reactions

- › [Analytical chemist](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Development chemist, printing and inks](#)
- › [Senior laboratory technician](#)
- › [Laboratory analyst and higher degree apprentice, water](#)

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AS Unit 2 –Energy, rate and chemistry of carbon compounds

2.1 Thermochemistry

- › [Chemistry engineer, nuclear](#)
- › [Chief chemist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

2.2 Rates of reaction

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

2.3 The wider impact of chemistry

- › [Head of research and sustainability](#)
- › [Pollution control officer](#)
- › [Principal air quality consultant](#)
- › [Senior principal scientist](#)
- › [Senior science manager](#)

2.4 Organic compounds

- › [Associate principal scientist, food](#)
- › [Associate researcher, pharmaceuticals](#)
- › [Development chemist, printing and inks](#)
- › [Forensic toxicologist](#)
- › [Microplastics toxicologist](#)

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2.5 Hydrocarbons

- › [Analytical technician, plastics](#)
- › [Associate principal scientist, food](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Principal air quality consultant](#)
- › [R&D chemist](#)

2.7 Alcohols and carboxylic acids

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

2.8 Instrumental analysis

- › [Analytical chemist](#)
- › [Forensic toxicologist](#)
- › [Pollution control officer](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)

A2 Unit 3 –Physical and inorganic chemistry

3.1 Redox and standard electrode potential

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

3.2 Redox reactions

- › [Chemistry engineer, nuclear](#)

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3.4 Chemistry of the d-block transition metals

- › [Bioleaching lab technician](#)
- › [Laboratory scientist apprentice](#)
- › [Chief executive officer](#)
- › [Senior laboratory technician](#)
- › [Environmental process specialist](#)

3.5 Chemical kinetics

- › [Chemistry engineer, nuclear](#)

3.6 Enthalpy changes for solids and solutions

- › [Chemistry engineer, nuclear](#)
- › [Project leader in enhanced experimentation, oil & gas](#)
- › [Chief chemist](#)

3.7 Entropy and feasibility of reactions

- › [Chemistry engineer, nuclear](#)

3.9 Acid-base equilibria

- › [Analytical chemist](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Development chemist, printing and inks](#)
- › [Scientist, food and pharmaceuticals](#)

A2 Unit 4 –Organic chemistry and analysis

4.1 Stereoisomerism

- › [Associate principal scientist, food](#)
- › [Research innovations manager](#)
- › [Medicinal chemist](#)
- › [Secondary school science teacher](#)
- › [Nanotoxicologist](#)

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4.2 Aromaticity

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

4.3 Alcohols and phenols

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

4.4 Aldehydes and ketones

- › [Flavourist and innovation director](#)

4.5 Carboxylic acids and their derivatives

- › [Flavourist and innovation director](#)

4.6 Amines

- › [Development chemist, printing and inks](#)

4.7 Amino Acids, Peptides and Proteins

- › [Postdoctoral research associate](#)
- › [Senior laboratory technician](#)
- › [Quality officer, genomics research](#)

4.8 Organic Synthesis and Analysis

- › [Analytical technician, plastics](#)
- › [Medicinal chemist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [R&D chemist](#)
- › [Technical services chemist, cosmetics](#)