

# AQA

## 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.

# AQA

## A Level Chemistry and Careers in Chemistry

1 of 7

### 3.1 Physical chemistry

#### 3.1.1 Atomic structure

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

#### 3.1.2 Amount of substance

- › [Medicinal chemist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)
- › [Technical services chemist, cosmetics](#)

#### 3.1.3 Bonding

- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Computational toxicologist](#)
- › [Senior software developer](#)
- › [Technical services chemist, cosmetics](#)

#### 3.1.4 Energetics

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

# AQA

## A Level Chemistry and Careers in Chemistry

2 of 7

### 3.1.5 Kinetics (A Level Only)

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

### 3.1.11 Electrode potentials and electrochemical cells

(A Level Only)

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

### 3.1.12 Acids and bases

(A Level Only)

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

## 3.2 Inorganic chemistry

### 3.2.1 Periodicity

- › [Executive editor, scientific publishing](#)
- › [Science careers coach and mentor](#)
- › [Secondary school science teacher](#)

### 3.2.2 Group2, the alkaline earth metals

- › [Analytical chemists, Thames Water](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Secondary school science teacher](#)
- › [Senior curator](#)

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# AQA

## A Level Chemistry and Careers in Chemistry 3 of 7

### 3.2 Inorganic chemistry

#### 3.2.4 Properties of Period 3 elements and their oxides (A-level only)

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

#### 3.2.5 Transition metals (A-level only)

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

#### 3.2.6 Reactions of ions in aqueous solution (A-level only)

- › [Director](#)
- › [Professor of environmental chemistry](#)
- › [Museum scientist](#)
- › [Senior curator](#)
- › [Product and process development manager](#)

# AQA

## A Level Chemistry and Careers in Chemistry

4 of 7

### 3.3 Organic chemistry

#### 3.3.1 Introduction to organic chemistry

- › [Associate principal scientist, food](#)
- › [Development chemist, printing and inks](#)
- › [Forensic toxicologist](#)
- › [Microplastics toxicologist](#)
- › [Principal air quality consultant](#)

#### 3.3.2 Alkanes

- › [Microplastics toxicologist](#)
- › [Principal air quality consultant](#)
- › [Project leader in enhanced experimentation, oil & gas](#)

#### 3.3.4 Alkenes

- › [Analytical technician, plastics](#)
- › [Market development manager](#)
- › [Microplastics toxicologist](#)
- › [R&D chemist](#)
- › [Research innovations manager](#)

#### 3.3.5 Alcohols

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

#### 3.3.6 Organic analysis

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Bioanalytical scientist](#)
- › [Environmental chemist](#)
- › [Forensic toxicologist](#)
- › [Scientist, food and pharmaceuticals](#)

# AQA

## A Level Chemistry and Careers in Chemistry

5 of 7

### 3.3 Organic chemistry

#### 3.3.7 Optical isomerism (A level only)

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

#### 3.3.8 Aldehydes and ketones (A Level Only)

- › [Flavourist and innovation director](#)

#### 3.3.9 Carboxylic acids and derivatives (A Level Only)

- › [Flavourist and innovation director](#)

#### 3.3.12 Polymers (A Level Only)

- › [Analytical technician, plastics](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Head of research and sustainability](#)
- › [R&D chemist](#)
- › [Section leader, wind](#)

#### 3.3.13 Amino acids, proteins and DNA (A Level Only)

- › [Director of IRC in biomedical materials](#)
- › [Postdoctoral research associate](#)
- › [Senior director of chip research](#)
- › [Senior laboratory technician](#)
- › [Quality officer, genomics research](#)

# AQA

## A Level Chemistry and Careers in Chemistry 6 of 7

### 3.3 Organic chemistry

#### 3.3.14 Organic synthesis (A Level Only)

- › [Analytical technician, plastics](#)
- › [Chief executive officer](#)
- › [Medicinal chemist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Technical services chemist, cosmetics](#)

#### 3.3.15 Nuclear magnetic resonance spectroscopy (A Level Only)

- › [Forensic toxicologist](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Teaching technical specialist](#)
- › [University laboratory technician apprentice](#)

#### 3.3.16 Chromatography

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Analytical chemist](#)
- › [Forensic toxicologist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)

# AQA

## A Level Chemistry and Careers in Chemistry

7 of 7

### Unit 8 Practical assessment

#### 8.1 Use of apparatus and techniques

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

#### 8.2 Required practical activities

- › [School science technician](#)