

OCR A

A Level Chemistry

and

Careers in Chemistry

Find examples of relevant careers for subsections of the curriculum and link through to 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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A Level and Careers 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

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Associate professor](#)
- › [Bioleaching lab technician](#)
- › [Bionanotechnology PhD student](#)
- › [Chemistry engineer, nuclear](#)
- › [Chief scientist at agritech company, Lambda Energy](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Dermal toxicologist](#)
- › [Environmental process specialist](#)
- › [Laboratory scientist apprentice](#)
- › [Marine biogeochemist](#)
- › [Marketing development manager](#)
- › [Medicinal chemist, drug discovery](#)
- › [Microplastics toxicologist](#)
- › [Museum scientist](#)
- › [PhD researcher](#)
- › [Pollution control officer](#)
- › [Principal air quality consultant](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of biorefineries](#)
- › [Professor of environmental chemistry](#)
- › [Qualified Person, pharmaceuticals](#)
- › [Quality officer, genomics research](#)
- › [R&D Chemist](#)
- › [Research & development team leader](#)
- › [Research fellow, battery recycling](#)
- › [Research scientist, microplastics](#)
- › [Scientific Consultant](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Section leader, wind](#)
- › [Senior director of chip research](#)
- › [Senior laboratory technician](#)
- › [Senior science manager](#)

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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 continued

- › [Soil scientist](#)
- › [Solar technology engineer](#)
- › [Teaching technical specialist](#)
- › [Technical services chemist, cosmetics](#)
- › [University laboratory technician apprentice](#)

1.2.2 Use of apparatus and techniques

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Associate professor](#)
- › [Bioleaching lab technician](#)
- › [Bionanotechnology PhD student](#)
- › [Chemistry engineer, nuclear](#)
- › [Chief scientist at agritech company, Lambda Energy](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Dermal toxicologist](#)
- › [Environmental process specialist](#)
- › [Laboratory scientist apprentice](#)
- › [Marine biogeochemist](#)
- › [Marketing development manager](#)
- › [Medicinal chemist, drug discovery](#)
- › [Microplastics toxicologist](#)
- › [Museum scientist](#)
- › [PhD researcher](#)
- › [Pollution control officer](#)
- › [Principal air quality consultant](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of biorefineries](#)
- › [Professor of environmental chemistry](#)
- › [Qualified Person, pharmaceuticals](#)
- › [R&D Chemist](#)
- › [Research & development team leader](#)
- › [Research fellow, battery recycling](#)
- › [Research scientist, microplastics](#)
- › [Scientific consultant](#)

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Module 1 Development of practical skills in chemistry

1.2 Practical skills assessed in the practical endorsement

1.2.2 Use of apparatus and techniques continued

- › [Scientist, food and pharmaceuticals](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Section leader, wind](#)
- › [Senior director of chip research](#)
- › [Senior laboratory technician](#)
- › [Senior science manager](#)
- › [Soil scientist](#)
- › [Solar technology engineer](#)
- › [Teaching technical specialist](#)
- › [Technical services chemist, cosmetics](#)
- › [University laboratory technician apprentice](#)

Also under 1.2 Practical skills assessed in the practical endorsement, from 2020

- › [Analytical chemists, Thames Water](#)
- › [Development chemist, printing and inks](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [School science technician](#)

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Module 2 –Foundations in chemistry

2.1 Atoms and reactions

2.1.1 Atomic structure and isotopes

- › [Executive editor, scientific publishing](#)
- › [Radioactive waste consultant](#)
- › [Chemistry engineer, nuclear](#)
- › [Science career coach and mentor](#)

2.1.2 Compounds, formulae and equations

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

2.1.3 Amount of substance

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Professor of environmental chemistry](#)
- › [Director](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Head of computational toxicology](#)
- › [Secondary school science teacher](#)
- › [Medicinal chemist, drug discovery](#)
- › [Senior laboratory technician](#)
- › [Pollution control officer](#)
- › [Technical services chemist, cosmetics](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)

2.1.4 Acids

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

2.1.5 Redox

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

Also under 2.1 Atoms and reactions, from 2020

- › [Analytical chemists, Thames Water](#)
- › [Research assistant, healthcare](#)

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Module 2 –Foundations in chemistry

2.2 Electrons, bonding and structure

2.2.2 Bonding and structure

- › [Analytical technician, plastics](#)
- › [Bionanotechnology PhD student](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Computational toxicologist](#)
- › [Nanotoxicologist](#)
- › [Postdoctoral research associate](#)
- › [Research fellow](#)
- › [Research innovations manager](#)
- › [Science communicator](#)
- › [Secondary school science teacher](#)
- › [Senior curator](#)
- › [Senior software developer](#)

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](#)
- › [Secondary school science teacher](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Senior laboratory technician](#)
- › [Scientist, Incident Management & Crisis Resolution](#)

Also under 3.1 The periodic table, from 2020

- › [Analytical chemists, Thames Water](#)
- › [Laboratory analyst and higher degree apprentice, water](#)

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Module 3 Periodic table and energy

3.2 Physical chemistry

3.2.1 Enthalpy changes

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

3.2.2 Reaction rates

- › [Chemistry engineer, nuclear](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior principal scientist](#)

Also under 3.2 Physical chemistry, from 2020

- › [Chief chemist](#)
- › [Project leader in enhanced experimentation](#)

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](#)

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Module 4 –Core organic chemistry

4.1 Basic concepts and hydrocarbons

4.1.3 Alkenes

- › [Associate professor](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Head of research and sustainability](#)
- › [Marketing development manager](#)
- › [Microplastics toxicologist](#)
- › [Professor of biorefineries](#)
- › [R&D Chemist](#)
- › [Secondary school science teacher](#)
- › [Senior science manager](#)

Also under 4.1 Basic concepts and hydrocarbons, from 2020

- › [Analytical technician, plastics](#)
- › [Associate principal scientist, food](#)
- › [Associate scientist, pharmaceuticals](#)
- › [Chief technology officer](#)
- › [Development chemist, printing and inks](#)
- › [Nanotoxicologist](#)
- › [Project leader in enhanced experimentation](#)
- › [Research innovations manager](#)
- › [Toxicologist, chemical company](#)

4.2 Alcohols, haloalkanes and analysis

4.2.1 Alcohols

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

4.2.3 Organic synthesis

- › [Bionanotechnology PhD student](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Laboratory scientist apprentice](#)
- › [Medicinal chemist, drug discovery](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Technical services chemist, cosmetics](#)

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Module 4 –Core organic chemistry

4.2 Alcohols, haloalkanes and analysis

4.2.4 Analytical techniques

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Dermal toxicologist](#)
- › [Museum scientist](#)
- › [Pollution control officer](#)
- › [Principal air quality consultant](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of environmental chemistry](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior director of chip research](#)
- › [Senior laboratory technician](#)
- › [Soil scientist](#)
- › [Teaching technical specialist](#)
- › [University laboratory technician apprentice](#)

Also under 4.2 Alcohols, haloalkanes and analysis, from 2020

- › [Advanced apprentice – forensics](#)
- › [Analytical technician, plastics](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate researcher](#)
- › [Astrochemist](#)
- › [Atmospheric chemist](#)
- › [Bioanalytical scientist](#)
- › [Director of IRC in biomedical materials](#)
- › [Environmental chemist](#)
- › [Forensic scientist](#)
- › [Household goods scientist](#)
- › [Lab analyst and higher degree apprentice, water](#)
- › [Nanotoxicologist](#)
- › [Research assistant, healthcare](#)
- › [Research innovations manager](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Senior analytical systems technician](#)
- › [Sports scientist](#)

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Module 5 –Physical chemistry and transition elements

5.1 Rates equilibria and pH

5.1.1. How fast?

- › [Chemistry engineer, nuclear](#)
- › [Secondary school science teacher](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Senior principal scientist](#)

5.1.3. Acids, bases and buffers

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

Also under 5.1 Rates equilibria and pH, from 2020

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

5.2 Energy

5.2.2 Enthalpy and entropy

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

5.2.3 Redox and electrode potentials

- › [Associate professor and enterprise, partnerships and innovation lead](#)
- › [Scientific Consultant](#)
- › [PhD researcher](#)
- › [Secondary school science teacher](#)
- › [Research fellow, battery recycling](#)
- › [Solar technology engineer](#)

Also under 5.2 Energy, from 2020

- › [Chief chemist](#)
- › [Patent attorney](#)

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Module 5 –Physical chemistry and transition elements

5.3 Transition elements

5.3.1 Transition elements

- › [Bioleaching lab technician](#)
- › [Chief technology officer](#)
- › [Director](#)
- › [Environmental process specialist](#)
- › [Laboratory scientist apprentice](#)
- › [Museum scientist](#)
- › [Product and process development manager](#)
- › [Project manager](#)
- › [Secondary school science teacher](#)

5.3.2 Qualitative analysis

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

Module 6 –Organic chemistry and analysis

6.1 Aromatic compounds, carbonyls and acids

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

6.2 Nitrogen compounds, polymers and synthesis

6.2.2 Amino acids, amides and chirality

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

6.2.3 Polyesters and polyamides

- › [Associate professor](#)
- › [Associate professor and enterprise, partnerships and innovation lead](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Marketing development manager](#)

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Module 6 –Organic chemistry and analysis

6.2 Nitrogen compounds, polymers and synthesis

6.2.3 Polyesters and polyamides continued

- › [Microplastics toxicologist](#)
- › [Professor of biorefineries](#)
- › [R&D Chemist](#)
- › [Research scientist, microplastics](#)
- › [Secondary school science teacher](#)
- › [Section leader, wind](#)
- › [Senior research and development scientist](#)

6.2.5 Organic synthesis

- › [Chief executive officer, ViridiCO2](#)
- › [Medicinal chemist, drug discovery](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Technical services chemist, cosmetics](#)

Also under 6.2 Nitrogen compounds, polymers and synthesis, from 2020

- › [Analytical technician, plastics](#)
- › [Associate principal scientist, food](#)
- › [Associate researcher](#)
- › [Consumer products technician](#)
- › [Household goods scientist](#)
- › [Nanotoxicologist](#)
- › [Patent attorney](#)
- › [Postdoctoral research associate](#)
- › [Research innovations manager](#)

6.3 Analysis

6.3.1 Chromatography and qualitative analysis

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Dermal toxicologist](#)
- › [Head of computational toxicology](#)
- › [Head of toxicology](#)
- › [Museum scientist](#)

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Module 6 –Organic chemistry and analysis

6.3 Analysis

6.3.1 Chromatography and qualitative analysis continued

- › [Professor of environmental chemistry](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Senior laboratory technician](#)
- › [Senior science manager](#)
- › [Soil scientist](#)
- › [Teaching technical specialist](#)
- › [University laboratory technician apprentice](#)

6.3.2 Spectroscopy

- › [Analyst –higher apprentice, organic chemistry](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Dermal toxicologist](#)
- › [Head of toxicology](#)
- › [Principal air quality consultant](#)
- › [Professor of environmental chemistry](#)
- › [Qualified Person, pharmaceuticals](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior laboratory technician](#)
- › [Soil scientist](#)
- › [Teaching technical specialist](#)

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Module 6 –Organic chemistry and analysis

6.3 Analysis

Also under 6.3 Analysis, from 2020

- › [Advanced apprentice – forensics](#)
- › [Analytical chemist, healthcare](#)
- › [Analytical chemists, Thames Water](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate principal scientist, food](#)
- › [Associate researcher](#)
- › [Associate scientist, pharmaceuticals](#)
- › [Astrochemist](#)
- › [Atmospheric chemist](#)
- › [Bioanalytical scientist](#)
- › [Chief technology officer](#)
- › [Development chemist, printing and inks](#)
- › [Director of IRC in biomedical materials](#)
- › [Environmental chemist](#)
- › [Forensic scientist](#)
- › [Forensic toxicologist](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Nanotoxicologist](#)
- › [Research assistant, healthcare](#)
- › [Research innovations manager](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Senior analytical systems technician](#)
- › [Sports scientist](#)