

# Higher 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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## Unit 1 – Chemical changes and structures

### 1a Periodicity

- › [Head of chemistry and science teacher](#)
- › [Secondary school science teacher](#)

### 1b Structure and bonding

- › [Advanced apprentice – forensics](#)
- › [Associate researcher](#)
- › [Astrochemist](#)
- › [Atmospheric chemist](#)
- › [Bioanalytical scientist](#)
- › [Bionanotechnology PhD student](#)
- › [Chief chemist](#)
- › [Consumer products technician](#)
- › [Director](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Fine fragrance evaluator](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Laboratory scientist apprentice](#)
- › [Marketing development manager](#)
- › [Patent attorney](#)
- › [Postdoctoral research associate](#)
- › [Principal air quality consultant](#)
- › [Project leader in enhanced experimentation](#)
- › [Research fellow](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior software developer](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)
- › [Technical services chemist, cosmetics](#)

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## 1c Oxidising and reducing agents

- › [Dermal toxicologist](#)
- › [Environmental chemist](#)
- › [PhD researcher](#)
- › [Head of chemistry and science teacher](#)
- › [Head of toxicology](#)
- › [Microplastics toxicologist](#)
- › [Principal air quality consultant](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)

## Unit 2 – Nature's chemistry

### 2a Systematic carbon chemistry

- › [Advanced apprentice – forensics](#)
- › [Associate researcher](#)
- › [Atmospheric chemist](#)
- › [Consumer products technician](#)
- › [Development chemist, printing and inks](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Fine fragrance evaluator](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Laboratory scientist apprentice](#)
- › [Medical research council board secretary](#)
- › [Microplastics toxicologist](#)
- › [Principal air quality consultant](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Senior laboratory technician](#)
- › [Senior software developer](#)
- › [Sports scientist](#)

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### 2b Alcohols

- › [Consumer products technician](#)
- › [Development chemist, printing and inks](#)
- › [Fine fragrance evaluator](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Medical research council board secretary](#)
- › [Secondary school science teacher](#)
- › [Senior science manager](#)

### 2c Carboxylic acids

- › [Consumer products technician](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Medical research council board secretary](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)

### 2d Esters, fats and oils

- › [Associate principal scientist, food](#)
- › [Bionanotechnology PhD student](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Consumer products technician](#)
- › [Development chemist, printing and inks](#)
- › [Fine fragrance evaluator](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of research and sustainability](#)
- › [Household goods scientist](#)
- › [Laboratory scientist apprentice](#)
- › [Medical research council board secretary](#)
- › [Scientist, food and pharmaceuticals](#)

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### 2d Esters, fats and oils continued

- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Senior software developer](#)
- › [Secondary school science teacher](#)
- › [Technical services chemist, cosmetics](#)
- › [Senior laboratory technician](#)

### 2e Soaps, detergents and emulsions

- › [Analyst – higher apprentice, organic chemistry](#)
- › [Postdoctoral research associate](#)
- › [Consumer products technician](#)
- › [Secondary school science teacher](#)
- › [Dermal toxicologist](#)
- › [Senior software developer](#)
- › [Head of chemistry and science teacher](#)
- › [Sports scientist](#)
- › [Household goods scientist](#)
- › [Technical services chemist, cosmetics](#)
- › [Laboratory scientist apprentice](#)

### 2f Proteins

- › [Associate principal scientist, food](#)
- › [Professor of biorefineries](#)
- › [Chief technology officer and co-founder of Lixea, a sustainable solutions company](#)
- › [Quality officer, genomics research](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Research & development team leader](#)
- › [Consumer products technician](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Flavour chemist and innovation director](#)
- › [Secondary school science teacher](#)
- › [Head of chemistry and science teacher](#)
- › [Senior laboratory technician](#)
- › [Head of research and sustainability](#)
- › [Senior software developer](#)
- › [Household goods scientist](#)
- › [Sports scientist](#)
- › [Postdoctoral research associate](#)

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## 2g Oxidation of food

- › [Associate principal scientist, food](#)
- › [Consumer products technician](#)
- › [Flavour chemist and innovation director](#)
- › [Head of chemistry and science teacher](#)
- › [Head of toxicology](#)
- › [Household goods scientist](#)
- › [Research & development team leader](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior laboratory technician](#)
- › [Senior software developer](#)
- › [Sports scientist](#)

## 2h Fragrances

- › [Consumer products technician](#)
- › [Fine fragrance evaluator](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic toxicologist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Senior software developer](#)
- › [Technical services chemist, cosmetics](#)

## 2i Skin care

- › [Atmospheric chemist](#)
- › [Consumer products technician](#)
- › [Dermal toxicologist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of toxicology](#)
- › [Consumer products technician](#)
- › [Nanotoxicologist](#)
- › [Principal air quality consultant](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Secondary school science teacher](#)
- › [Senior software developer](#)

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## Unit 3 – Chemistry in society

### 3a Getting the most from reactants

- › [Advanced apprentice – forensics](#)
- › [Assistant analyst, drug control centre](#)
- › [Bioanalytical scientist](#)
- › [Bioleaching lab technician](#)
- › [Chief chemist](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Director of medicinal chemistry](#)
- › [Forensic scientist](#)
- › [Forensic toxicologist](#)
- › [Head of chemistry and science teacher](#)
- › [Household goods scientist](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Project leader in enhanced experimentation](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior science manager](#)
- › [Sustainability manager](#)

### 3b Controlling the rate

- › [Chief executive officer, ViridiCO2](#)
- › [Chief scientist at agritech company, Lambda Energy](#)
- › [Director of medicinal chemistry](#)
- › [Head of chemistry and science teacher](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Project leader in enhanced experimentation](#)
- › [Research & development team leader](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior principal scientist](#)
- › [Senior science manager](#)
- › [Sustainability manager](#)

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### 3c Chemical energy

- › [Astrochemist](#)
- › [Atmospheric chemist](#)
- › [Environmental chemist](#)
- › [Head of chemistry and science teacher](#)
- › [Project leader in enhanced experimentation](#)
- › [Secondary school science teacher](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)

### 3d Equilibria

- › [Atmospheric chemist](#)
- › [Environmental chemist](#)
- › [Head of chemistry and science teacher](#)
- › [Project leader in enhanced experimentation](#)
- › [Secondary school science teacher](#)
- › [Sports scientist](#)

### 3e Chemical analysis

- › [Advanced apprentice – forensics](#)
- › [Analyst – higher apprentice, organic chemistry](#)
- › [Analytical chemist, healthcare](#)
- › [Analytical chemists, Thames Water](#)
- › [Analytical technician, plastics](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate professor](#)
- › [Associate researcher](#)
- › [Atmospheric chemist](#)
- › [Bioanalytical scientist](#)
- › [Bionanotechnology PhD student](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Chief scientist at agritech company, Lambda Energy](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Computational toxicologist](#)
- › [Director of IRC in biomedical materials](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Fine fragrance evaluator](#)
- › [Forensic scientist](#)
- › [Forensic toxicologist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of computational toxicology](#)

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## 3e Chemical analysis continued

- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Marine biogeochemist](#)
- › [Medicinal chemist, drug discovery](#)
- › [Museum scientist](#)
- › [Nanotoxicologist](#)
- › [Patent attorney](#)
- › [Pollution control officer](#)
- › [Postdoctoral research associate](#)
- › [Principal air quality consultant](#)
- › [Professor of environmental chemistry](#)
- › [Project leader in enhanced experimentation](#)
- › [Quality officer, genomics research](#)
- › [Research assistant, healthcare](#)
- › [Research fellow](#)
- › [Research innovations manager](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior laboratory technician](#)
- › [Senior principal scientist](#)
- › [Soil scientist](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)
- › [Teaching technical specialist](#)
- › [Toxicologist, chemical company](#)
- › [University laboratory technician apprentice](#)

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## Unit 4 – Researching chemistry

### 4a Common chemical apparatus

- › [Advanced apprentice – forensics](#)
- › [Analyst – higher apprentice, organic chemistry](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate researcher](#)
- › [Bioanalytical scientist](#)
- › [Chief chemist](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Consumer products technician](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of computational toxicology](#)
- › [Household goods scientist](#)
- › [Microplastics toxicologist](#)
- › [Museum scientist](#)
- › [Patent attorney](#)
- › [Postdoctoral research associate](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of environmental chemistry](#)
- › [Project leader in enhanced experimentation](#)
- › [Research fellow](#)
- › [School science technician](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior laboratory technician](#)
- › [Senior principal scientist](#)
- › [Soil scientist](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)
- › [Teaching technical specialist](#)
- › [Toxicologist, chemical company](#)
- › [University laboratory technician apprentice](#)
- › [Postdoctoral research associate](#)

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### 4b General practical techniques

- › [Advanced apprentice – forensics](#)
- › [Analyst – higher apprentice, organic chemistry](#)
- › [Analytical chemist, healthcare](#)
- › [Analytical chemists, Thames Water](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate professor](#)
- › [Associate researcher](#)
- › [Bioanalytical scientist](#)
- › [Chief chemist](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Consumer products technician](#)
- › [Director of IRC in biomedical materials](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Forensic toxicologist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of computational toxicology](#)
- › [Household goods scientist](#)
- › [Laboratory analyst and higher degree apprentice, water](#)
- › [Laboratory scientist apprentice](#)
- › [Museum scientist](#)
- › [Patent attorney](#)
- › [Postdoctoral research associate](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of environmental chemistry](#)
- › [Project leader in enhanced experimentation](#)
- › [Research fellow](#)
- › [School science technician](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Secondary school science teacher](#)
- › [Senior analytical systems technician](#)
- › [Senior laboratory technician](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)
- › [Teaching technical specialist](#)
- › [Toxicologist, chemical company](#)
- › [University laboratory technician apprentice](#)

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### 4c Reporting experimental work

- › [Advanced apprentice – forensics](#)
- › [Analyst – higher apprentice, organic chemistry](#)
- › [Analytical chemists, Thames Water](#)
- › [Assistant analyst, drug control centre](#)
- › [Associate professor](#)
- › [Associate researcher](#)
- › [Astrochemist](#)
- › [Atmospheric chemist](#)
- › [Bioanalytical scientist](#)
- › [Bioleaching lab technician](#)
- › [Bionanotechnology PhD student](#)
- › [Chief chemist](#)
- › [Chief executive officer, ViridiCO2](#)
- › [Chief scientist at agritech company, Lambda Energy](#)
- › [Chief technology officer and co-founder of a robotic chemists' company](#)
- › [Co-founder and machine learning lead of tech startup Ignota Labs](#)
- › [Consumer products technician](#)
- › [Dermal toxicologist](#)
- › [Director of IRC in biomedical materials](#)
- › [Director of medicinal chemistry](#)
- › [Environmental chemist](#)
- › [Executive editor, scientific publishing](#)
- › [Finance and planning manager](#)
- › [Fine fragrance evaluator](#)
- › [Flavour chemist and innovation director](#)
- › [Forensic scientist](#)
- › [Freelance science publicist](#)
- › [Head of chemistry and science teacher](#)
- › [Head of computational toxicology](#)
- › [Head of toxicology](#)
- › [Household goods scientist](#)
- › [Investor relations manager](#)
- › [Lab technician, solar panels \(higher apprentice\)](#)
- › [Laboratory scientist apprentice](#)
- › [Marine biogeochemist](#)
- › [Marketing development manager](#)
- › [Medical research council board secretary](#)
- › [Microplastics toxicologist](#)
- › [Museum scientist](#)
- › [Patent attorney](#)

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## 4c Reporting experimental work cont.

- › [Picture researcher](#)
- › [Policy advisor](#)
- › [Policy researcher](#)
- › [Pollution control officer](#)
- › [Postdoctoral research associate](#)
- › [Principal air quality consultant](#)
- › [Process chemist – higher apprentice, pharmaceuticals](#)
- › [Professor of environmental chemistry](#)
- › [Project leader in enhanced experimentation](#)
- › [Project manager](#)
- › [Quality officer, genomics research](#)
- › [Radioactive waste consultant](#)
- › [Research assistant, healthcare](#)
- › [Research fellow](#)
- › [Research innovations manager](#)
- › [Science communicator](#)
- › [Scientific associate, NMR spectroscopy](#)
- › [Scientist, food and pharmaceuticals](#)
- › [Scientist, Incident Management & Crisis Resolution](#)
- › [Section leader, wind](#)
- › [Senior analytical systems technician](#)
- › [Senior committee specialist](#)
- › [Senior director of chip research](#)
- › [Senior laboratory technician](#)
- › [Senior principal scientist](#)
- › [Soil scientist](#)
- › [Sports scientist](#)
- › [Sustainability manager](#)
- › [Toxicologist, chemical company](#)
- › [University laboratory technician apprentice](#)