## Chemistry

### Job Types

#### ANALYTICAL
- Research
- Development
- Analysis and Testing
- Consulting
- Environmental Forensics

#### GEOCHEMISTRY
- Environmental Remediation
- Research & Development
- Analysis & Training

### Where to find them

- Federal, state, and local government
- Federal Agencies including National Aeronautics and Space Administration
- Manufacturing firms including textile, petroleum, food, electronics, glass, paper, packaging, machinery, cosmetics, paint, drug, and chemical industries
- Industrial production and inspection agencies
- Research laboratories and organizations
- Environmental protection organizations
- Colleges and universities

### Ways to Prepare

- Familiarize yourself with federal, state, and local government job application processes.
- Gain experience in a laboratory setting.
- Develop proficiency with high-tech scientific equipment.
- Take electives in your area of interest.

- Take geology & environmental science electives.
<table>
<thead>
<tr>
<th>Job Types</th>
<th>Where to Find Them</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIOCHEMICAL</strong></td>
<td>Research laboratories and organizations</td>
</tr>
<tr>
<td>Research</td>
<td>Pharmaceutical and medical research firms</td>
</tr>
<tr>
<td>Development</td>
<td>Biotechnology firms</td>
</tr>
<tr>
<td>Analysis Testing</td>
<td>Plant and animal breeders and growers</td>
</tr>
<tr>
<td>Consulting</td>
<td>Food processors</td>
</tr>
<tr>
<td>Quality Control</td>
<td>Industrial production and inspection agencies</td>
</tr>
<tr>
<td>Medical</td>
<td>Environmental protection agencies</td>
</tr>
<tr>
<td>Environmental</td>
<td>Federal, state and local governments, such as the Centers for Disease Control</td>
</tr>
<tr>
<td>Industrial Health &amp; Safety</td>
<td></td>
</tr>
<tr>
<td>Hospital Administration</td>
<td></td>
</tr>
</tbody>
</table>

**Ways to Prepare**

- Take additional courses in biology, genetics, cytology, and physiology.
- Develop excellent laboratory and computer skills.
- Get involved with undergraduate research with professors.
- Join related professional organizations.
- Complete a related internship with an organization in the area of your interest.

<table>
<thead>
<tr>
<th>Job Types</th>
<th>Where to Find Them</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ORGANIC</strong></td>
<td>Industries related to petroleum, coal, wood products, plastics, textiles, and food</td>
</tr>
<tr>
<td>Research</td>
<td>Manufacturing firms developing new synthetic materials and new production processes</td>
</tr>
<tr>
<td>Development</td>
<td>Research organizations</td>
</tr>
<tr>
<td>Analysis and Testing</td>
<td></td>
</tr>
<tr>
<td>Consulting</td>
<td>Federal and state government</td>
</tr>
<tr>
<td>Quality Control</td>
<td>Colleges and universities</td>
</tr>
</tbody>
</table>

**Ways to Prepare**

- Gain additional laboratory and research experience through internships and summer jobs.
- Get involved with undergraduate research with professors.

<table>
<thead>
<tr>
<th>Job Types</th>
<th>Where to Find Them</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INORGANIC</strong></td>
<td>Environmental organizations</td>
</tr>
<tr>
<td>Research</td>
<td>Water processing plants</td>
</tr>
<tr>
<td>Analysis and Testing</td>
<td></td>
</tr>
<tr>
<td>Consulting</td>
<td>Natural resources organizations</td>
</tr>
</tbody>
</table>

**Ways to Prepare**

- Choose appropriate coursework to specialize in an area.
- Develop additional laboratory skills and experience.

<table>
<thead>
<tr>
<th>Job Types</th>
<th>Where to Find Them</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POLYMER CHEMISTRY</strong></td>
<td>Industries involving textiles and plastics</td>
</tr>
<tr>
<td>Analysis &amp; Testing</td>
<td></td>
</tr>
<tr>
<td>Research &amp; Development</td>
<td></td>
</tr>
</tbody>
</table>

**Ways to Prepare**

- Gain research experience through internships, part-time employment, and summer jobs.
### Job Types

#### Physical
- Research
- Development
- Analysis and Testing
- Quality Control
- Consulting

#### Ways to Prepare
- Take related courses in social sciences and economics.
- Develop strong mathematical background.

#### Business
- Technical Sales/Marketing
- Pharmaceutical Sales
- Management
- Consulting
- Industrial Quality Control
- Research & Development

#### Where to Find Them
- Research laboratories and organizations
- Industries involving electrical, nuclear, gas, heat, or light energy
- Federal government
- Colleges and universities

#### Business
- Manufacturing firms
- Drug stores
- Medical/Pharmaceutical supply companies
- Industries including textiles, petroleum, food, electronics, glass, paper, packaging, machinery, cosmetics, paint, drugs, and chemicals.
- Agricultural product companies
- Environmental management organizations
- Waste management firms

#### Ways to Prepare
- Obtain a minor in business.
- Develop strong verbal and written communication, interpersonal, and organizational skills.
- Hold leadership positions in campus organizations.
- Join related student organizations, e.g., American Marketing Association, Financial Management Association, Public Relations Student Society of America, etc.

### Education

#### Teaching
- Private and public secondary schools
- Colleges and Universities

#### Research
- Universities and colleges

#### Administration
- Government agencies

#### Ways to Prepare
- Obtain appropriate state license and/or certification for public school teaching positions.
- Acquire a master’s degree for community college teaching and a PhD for colleges and universities.
- Take courses in public speaking.
- Volunteer to teach, supervise, or tutor with organizations such as Big Brother/Sister, YMCA, or churches.
- Develop excellent written and oral communication skills.
- Learn to work well with all types of people.
### Job Types

**TECHNICAL WRITING**
- Writing
- Editing

**LAW**
- Patent Law
- Legislation and Lobbying

**INFORMATION SPECIALISTS/TECHNICAL LIBRARIES**

---

<table>
<thead>
<tr>
<th>Ways to Prepare</th>
<th>Where to Find Them</th>
</tr>
</thead>
<tbody>
<tr>
<td>The field of chemistry is constantly changing, and the information listed above does not exhaust possible career options. Be sure to speak with your department chair or academic advisor for further guidance on course selections, as well as career planning.</td>
<td></td>
</tr>
</tbody>
</table>

---

- Obtain master’s degree in library and information science.
- Develop computer retrieval skills.
- Join Special Libraries Association, Chemistry Division.

---

- Take advanced technical writing courses.
- Develop word processing and desktop publishing skills.

---

- Obtain law degree to become an attorney.

---

- Manufacturing firms
- Research and development firms
- Law firms
- Private practice
- Environmental agencies

---

Research product development departments and organizations
Publishing firms including books, scientific and research journals, technical press, large newspapers, and wire services
Internet sites