School of Chemistry

Dr Frances Docherty
Dr Beth Paschke
(Senior Chemistry Lecturers)
Degrees in Chemistry

- Chemistry
- Chemistry with Medicinal Chemistry
- Materials Chemistry
- Chemical Physics
- Chemistry and Mathematics
- Chemical Studies
Study three subjects in first year

Chemistry plus two others from:

- Archaeology
- Biology
- Earth Science
- Exploring the Cosmos
- Maths
- Psychology
- Astronomy
- Computing Science
- Geography
- Physics
- Statistics
- Others (non-science?)
Flexibility of course choice

1st Year
- Chemistry
- Biology
- Maths

2nd Year
- Chemistry
- Maths

3rd Year and 4th Year
- Chemistry
  Or
  - Materials Chemistry
  Or
  - Chemistry with Medicinal Chemistry
  Or
  - Maths degree
  Or
  - Chemistry & Maths degree
## Chemistry degrees

<table>
<thead>
<tr>
<th></th>
<th>BSc</th>
<th>BSc (Hons)</th>
<th>MSci</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Chemistry with Medicinal</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Chemistry with Medicinal</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Chemistry and Mathematics</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Chemical Physics</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Materials Chemistry</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Chemical Studies</td>
<td>✔</td>
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</tbody>
</table>
• BSc (3 years)
• Honours (4 years)
• MSci (5 years)
• MSci includes work placement year for Chem, CMC, Materials Chem and Chemical Physics (WP)
Our **MSci degrees** involve work placement opportunities in;

- **industry** e.g. GSK, Merck, Hoffman La Roche, AZ, Diageo, BASF, Bayer

- **other institutions** e.g. CERN, Max Planck Institute, European Universities such as Alicante, Amsterdam, Barcelona, Utrecht
Accreditations

- Hons and MSci degrees in CHEM and CMC are accredited by the RSC
- Hons and MSci degrees in CP are accredited by the IoP

Recognition of:
- High standards
- Intellectual challenge and effective training of students
- Student support
Careers?

- Teacher
- Fragrance chemist
- Accountant
- University researcher/lecturer
- Publishing
- Science communicator
- Metallurgist
- Production manager
- Policy adviser
- Finance
- Cancer research…..
## Science Skills most in Demand

**New Scientist**, April 2019

### Skill set most difficult to recruit for

<table>
<thead>
<tr>
<th>Skill Set</th>
<th>Percentage of Recruiter Who Identified This Skillset as Most Difficult to Recruit for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>25%</td>
</tr>
<tr>
<td>Biological sciences</td>
<td>19%</td>
</tr>
<tr>
<td>Engineering</td>
<td>16%</td>
</tr>
<tr>
<td>Data analysis</td>
<td>11%</td>
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<tr>
<td>Quality control</td>
<td>10%</td>
</tr>
<tr>
<td>Bio-informatics</td>
<td>9%</td>
</tr>
<tr>
<td>Life sciences</td>
<td>9%</td>
</tr>
<tr>
<td>Regulatory</td>
<td>8%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>8%</td>
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<tr>
<td>Material scientist</td>
<td>8%</td>
</tr>
<tr>
<td>Statistics</td>
<td>7%</td>
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<tr>
<td>Project management</td>
<td>7%</td>
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<tr>
<td>Physics</td>
<td>7%</td>
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<tr>
<td>Programming</td>
<td>6%</td>
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<tr>
<td>Information technology</td>
<td>6%</td>
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<tr>
<td>Mathematics</td>
<td>5%</td>
</tr>
<tr>
<td>Data management</td>
<td>4%</td>
</tr>
</tbody>
</table>

**Base:** All responding who are responsible for recruitment. UK (535)

**Source:** NEW SCIENTIST/SRG 2019 SALARY SURVEY
Main Chemistry Outreach Group Themes

• Raising awareness that science is all around us – not just people in white coats.
• Supporting the curriculum at primary and secondary levels.
• Promoting interest in STEM subjects and making science fun!
Some of Chemistry Outreach Group
RSC Chemistry at Work and Top of the Bench
Nuffield Summer Placements
Nuffield Summer Placements
Engagement and Outreach Lead

Dr. Adele L’Etang

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Thank you

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