## JOB DESCRIPTION

**Vacancy Ref: A3319**

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Senior Research Associate</th>
<th>Present Grade: 7</th>
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<tbody>
<tr>
<td>Department/College</td>
<td>Department of Chemistry</td>
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<tr>
<td>Directly responsible to</td>
<td>Prof. Joe Sweeney</td>
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<tr>
<td>Supervisory responsibility for</td>
<td>Undergraduate and postgraduate students</td>
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### Other contacts

**Internal:**
- Staff and postgraduate students of the Chemistry department and Materials Science Institute

### Major Duties:

The senior research associate will carry out research into the development of new catalytic methods for organic synthesis, and will use robotics/computation to accelerate these developments and to prepare compound libraries for translation into industrial and interdisciplinary academic contexts.

### Key Responsibilities

Under the supervision of Prof. Joe Sweeney, the senior research associate will:

- Conduct a range of experiments to develop novel synthetic methods and synthesize new and known organic molecules of biological and commercial significance
- Undertake the analyses of these materials using a full suite of analytical equipment
- Undertake AI/machine learning research in the support of development of new catalytic methods
- Use robotics equipment for catalysis screening and the preparation of compound libraries
- Contribute to the running of the research group, by providing technical training and contributing to resource management (ordering, generating health and safety documentation, etc.)
- Prepare internal reports, and progress reports for the funder (Leverhulme Trust)
- Participate in the normal activities of the research group, including meetings and presentations
- Have supervisory responsibility for undergraduate and postgraduate students
- Prepare manuscripts for publication in collaboration with the PI(s)
- Disseminate research findings at national or international meetings and conferences
- Participate in departmental seminars and faculty conferences
- Undertake necessary training and development
- Other duties commensurate with the grade of the post, as directed by the PI(s)