Purpose of role
This is a key role to operate and maintain various analytical instrumentation embedded within the BBSRC/EPSRC Synthetic Biology Research Centre (SBRC). SBRC-Nottingham originally received grant funding of £14.3M and has just received extension funding of £3m. It is working at the frontiers of UK academic and industrial research with the aim to accelerate the application of Engineering and Synthetic Biology technologies to directly capture carbon by exploiting the ability of autotrophic bacteria to fix C1-gases (carbon dioxide, carbon monoxide or methane) and convert them into hydrocarbon platform chemicals including hydrocarbons, carboxylic acids and biopolymers. To meet these goals the centre purchased capital equipment totally £4.3M including various LC, LC MS, GC and GC MS equipment which is used to assess the performance of the engineered microbial chassis. This technical role is essential to ensure that the full benefits of the instrumentation investment are available to the SBRC and its researchers.

### Main responsibilities
(Primary accountabilities and responsibilities expected to fulfil the role)

<table>
<thead>
<tr>
<th></th>
<th>% time per year</th>
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<tbody>
<tr>
<td>1</td>
<td>Plan and oversee the day to day technical running of the various analytical instrumentation embedded within the BBSRC/EPSRC Synthetic Biology Research Centre (SBRC) with a particular emphasis on the various LC, LC MS, GC and GC MS instruments. Provide training in using the above facilities to users from all levels of staff and to external collaborators.</td>
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<tr>
<td>2</td>
<td>Make significant contribution to the design and implementation of research in the SBRC using the above resources. This includes instrument set-up, programming and development; hardware maintenance, and; to provide training to users.</td>
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<tr>
<td>3</td>
<td>Liaise with other University departments and in particular the Centre for Analytical Biosciences, School of Pharmacy, as well as the School of Chemistry in the use of similar instruments.</td>
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<tr>
<td>4</td>
<td>Liaise at a technical level with collaborators and commercial partners. Allocate and manage user time and implement access policies.</td>
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<tr>
<td>5</td>
<td>Generate and analyse data for research publications and make significant contribution to writing research reports.</td>
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<tr>
<td>6</td>
<td>Maintain a safe working environment and enforce safe working practice in the analytical laboratories</td>
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## Person specification

<table>
<thead>
<tr>
<th>Skills</th>
<th>Essential</th>
<th>Desirable</th>
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</table>
|        | • Ability to work accurately and methodically in order to maintain high standards, with the ability to work effectively under pressure to achieve work deadlines.  
• Excellent oral and written communication skills, including the ability to communicate with clarity on complex information.  
• Effective note-taking and record keeping.  
• Competent in Microsoft Office user.  
• Good customer relation skills.  
• Ability to build relationships and collaborate with others internally and externally.  
• Preparation and stock management of buffers and media. | • Skilled in the use of chromatographic analytical instruments.  
• Proven report writing skills.  
• Aptitude and enthusiasm to work with researchers and postgraduate students. |

<table>
<thead>
<tr>
<th>Knowledge and experience</th>
<th>Essential</th>
<th>Desirable</th>
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</table>
|                          | • Proven technical and/or experimental expertise in a scientific or technical specialism.  
• A sound understanding of Health and Safety regulations and the implications of non-compliance. | • Experience of varied Biochemical techniques, including analytical assays, enzyme assays and protein purification.  
• Experience of working as part of a multidisciplinary team |

<table>
<thead>
<tr>
<th>Qualifications, certification and training (relevant to role)</th>
<th>Essential</th>
<th>Desirable</th>
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<tbody>
<tr>
<td></td>
<td>• Minimum of HNC in relevant subject, or equivalent qualifications plus substantial work experience in relevant role or Bachelor of Science in Biochemistry or related area (2.2)</td>
<td>• Additional qualifications in laboratory skills e.g. Health and Safety</td>
</tr>
</tbody>
</table>

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.
Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University’s strategy, vision and values. The following are essential to the role:

**Valuing people**
Is friendly, engaging and receptive, putting others at ease. Actively listens to others and goes out of way to ensure people feel valued, developed and supported.

**Taking ownership**
Is clear on what needs to be done encouraging others to take ownership. Takes action when required, being mindful of important aspects such as Health & Safety, Equality, Diversity & Inclusion, and other considerations.

**Forward thinking**
Drives the development, sharing and implementation of new ideas and improvements to support strategic objectives. Engages others in the improvement process.

**Professional pride**
Is professional in approach and style, setting an example to others; strives to demonstrate excellence through development of self, others and effective working practices.

**Always inclusive**
Builds effective working relationships, recognising and including the contribution of others; promotes inclusion and inclusive practices within own work area.

**Key relationships with others**

![Relationship Diagram]

- **Line manager**
  - **SBRC Director and/or delegated line manager**

- **Role holder**
  - **Technician**

- **Key stakeholder relationships**
  - **Direct Reports (delete as appropriate)**
  - **Collagues**
  - **Students**