



<b>Job title</b>	Research Associate/Fellow in Medicinal Chemistry (fixed term)	<b>Job family and level</b>	Research and Teaching Level 4
<b>School/ Department</b>	Pharmacy	<b>Location</b>	University Park Campus

## Purpose of role

This role will involve the development of a medicinal chemistry research project founded upon excellence in synthetic (medicinal) chemistry aimed at supporting an artificial intelligence (AI) enabled medicinal chemistry program. The successful candidate will work in collaboration with an AI computational chemist to explore the proof-of-concept chemical synthesis of new lead- and drug-like chemical scaffolds, enabling the synthesis of the scaffold and the expansion of the scaffolds into small “drug-like” libraries. This position is part of a recently announced EPSRC Prosperity Partnership award entitled “Accelerated Discovery and Development of New Medicines: Prosperity Partnership for a Healthier Nation” (EP/S005080/1), which will support a multidisciplinary team of approx. 30 co-workers all of whom are committed to the development of smarter chemistries to underpin efficient processes enabling the manufacture of high potency materials with a minimal environmental impact.

	<b>Main responsibilities</b>	
1	<p>Plan and conduct supervised research using recognised approaches, methodologies and techniques within a chosen medicinal chemistry project. This will include but is not limited to:</p> <ul style="list-style-type: none"><li>• Design and synthesise new chemical scaffolds in a given therapeutic area.</li><li>• Design of synthetic routes to molecules of interest</li><li>• Preparation and purification of compounds; iterative design through medicinal chemistry</li><li>• Ensure the smooth and safe running of the chemistry laboratory</li></ul>	70%
2	Work in conjunction with others in the research team to achieve objectives and make an active contribution to the success of the team. Provide support, guidance and supervision to other staff, where appropriate in own area of expertise.	10%
3	Assist in the supervision of undergraduate and/or postgraduate student's projects as appropriate. To participate in the assessment of student knowledge and co-supervise projects at Masters and undergraduate level.	10%

4	Prepare research work for publication and/or contribute to the dissemination to relevant groups including external bodies and conferences, resulting in successful research outputs. Assist in the preparation of scientific reports and publications for the grant programme.	5%
5	Build relationships with both internal and external project collaborators in order to exchange information, to form relationships for future collaborations and identify potential sources of funds and/or opportunities for collaboration.	5%

## Person specification

	<b>Essential</b>	<b>Desirable</b>
<b>Skills</b>	<ul style="list-style-type: none"><li>• Excellent skills in organic synthesis &amp; medicinal chemistry</li><li>• Excellent oral and written communication skills including the ability to communicate complex information with clarity and write to a publishable standard.</li><li>• Strong analytical skills including the ability to analyse and illuminate data, interprets reports, evaluate and criticise texts and bring new insights. Proven expertise in NMR, LC-MS and HPLC and other analytical techniques</li><li>• Ability to creatively apply relevant research approaches/models/techniques/methods and devise and manage research programmes.</li><li>• Excellent problem solving, IT and organisational skills including the effective deployment of resources.</li><li>• Ability to build effective relationships as part of a team and collaborate with others, both internally and externally.</li><li>• Flexible, proactive and dedicated approach. Ability to work to deadlines and prioritise tasks</li><li>• Ability to travel within the UK and overseas.</li></ul>	<ul style="list-style-type: none"><li>• Experience of Computational methods</li><li>• Molecular docking</li></ul>
<b>Knowledge and experience</b>	<ul style="list-style-type: none"><li>• Presenting work effectively to a variety of professional and academic audiences at meetings and conferences.</li><li>• A consistent track record of published research in peer-reviewed journals and writing high</li></ul>	<ul style="list-style-type: none"><li>• First author publications in high impact factor journals.</li><li>• Training and/or supervision of students.</li></ul>

	quality reports and papers for publication.	
<b>Qualifications, certification and training (relevant to role)</b>	<ul style="list-style-type: none"> <li>▪ A 1<sup>st</sup> or upper-second class honours degree in synthetic chemistry-related discipline and a PhD awarded or submitted in synthetic (medicinal) chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>• Drug discovery and industrial working experience</li> </ul>

Informal enquiries may be addressed to Dr Michael Stocks, email: michael.stocks@nottingham.ac.uk, tel 0115 8466863. Please note that applications sent directly to these email addresses will not be accepted.



We pride ourselves on the collegial and supportive culture created by our staff. We are dedicated to creating an environment which enables both our staff to thrive and achieve their potential. Our commitment to Equality and Diversity has been recognised in the awarding of an [Athena SWAN Silver Award](#).

## 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:

<b>Valuing people</b>	Is always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.
<b>Taking ownership</b>	Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.
<b>Forward thinking</b>	Driven to question the status quo and explore new ideas, supporting the team to "lead the way" in terms of know-how and learning.
<b>Professional pride</b>	Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.
<b>Always inclusive</b>	Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

## Key relationships with others



