



Job title	Research Associate/Fellow	Job family and level	Research and Teaching Level 4 (Appointment will be Level 4 Career training grade where an appointment is made before PhD has been completed)
School/ Department	Chemistry/Biological Chemistry	Location	Biodiscovery Institute

Purpose of role

The purpose of this role will be to have specific responsibility for research, for developing research objectives and proposals for a research project in applying engineering biology techniques to an apoferritin nanocage in order to improve its abilities to function as a targeted drug delivery platform. This will require the application of a range of techniques including protein engineering, synthetic and analytical chemistry, mammalian cell culture, single molecule fluorescence microscopy and nano material characterisation. The person appointed will be expected to plan and conduct work using the above methodologies and techniques as appropriate to this type of research. To maintain accurate and detailed experimental records and curate the data they generate for long term access by others. and will be responsible for writing up their work for publication and assisting with further research grant submissions. The person will also be responsible for promoting safety laboratory working and supervision of less experienced researchers.

The person appointed will have the opportunity to use their initiative and creativity to identify areas for research, develop research methods and extend their research portfolio.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	Deliver the technical development and commercial exploitation of novel protein-based drug delivery systems and other innovative materials /technologies developed within the School of Chemistry. The role will involve liaising with companies and academics, market/business analysis, negotiating contracts, identifying and applying for external funding, undertaking small amounts of laboratory work.	60%
2	Identify, develop and deliver opportunities to promote School of Chemistry expertise, particularly in the areas of engineering biology, chemical biology and drug discovery including writing blogs, technical and executive summaries.	10%
3	Support the administration of all information required to allow confidential discussions with third parties together with assessment and filing of novel intellectual property originating from School of Chemistry research portfolio.	10%

4	To write up research work for publication and/or contribute to the dissemination at national/international conferences, resulting in successful research outputs and knowledge exchange..	5%
5	To identify opportunities and assist in writing bids for research grant applications. Prepare proposals and applications to both external and/or internal bodies for funding, contractual or regulation purposes.	5%
6	To build relationships with both internal and external contacts in order to exchange information, to form relationships for future collaborations and identify potential sources of funds and/or opportunities for collaboration.	5%
7	To provide support, guidance and supervision to other staff and students, where appropriate in own area of expertise.	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Oral and written communication skills, including the ability to communicate with clarity on complex information. ▪ Demonstrate the ability to write a published article/review/report ▪ Ability to analyse and illuminate data, interprets reports, evaluate and criticise texts and bring new insights. ▪ Ability to assess and organise resource requirements and deploy effectively. ▪ Ability to build relationships and collaborate with others, both internally and externally. ▪ Excellent problem-solving skills and an ability to apply technical knowledge in new contexts to solve unusual scientific challenges posed by industry. ▪ Self-motivation and workload management skills. ▪ Efficient at administration / record keeping. 	<ul style="list-style-type: none"> ▪ Project management skills and experience. ▪ Be able to demonstrate excellent presentation skills
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience of developing projects to meet needs and objectives. ▪ Knowledge and experience of development of chemical biology technologies ▪ Good and demonstrable knowledge of contemporary drug delivery systems ▪ Knowledge of protein structure, engineering, production and modification 	<ul style="list-style-type: none"> ▪ Experience of applying for translational funding to support research collaborations with Industry. ▪ A basic understanding of research related contracts. ▪ Experience of working on industry related projects. ▪ Experience of managing multiple deadlines and competing priorities. ▪ Experience of assessing novel technologies from varied scientific fields and evaluating their potential for further development. ▪ Experience of taking part in any technology transfer or knowledge exchange activity
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Must have a Ph.D. or equivalent or be close to completing a Ph.D. in the relevant subject area or possess equivalent professional qualifications and experience in the research field. 	<ul style="list-style-type: none"> ▪ Membership of a relevant professional society (RSC, ACS, Biochemical Society etc)



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



