



Job title	Research Fellow (Title will be 'Research Associate' where an appointment is made before PhD is completed)	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	Computer Science	Location	Computer Science Building, Jubilee Campus

Purpose of role

To have specific responsibility for research, for developing research objectives and proposals for a research project in machine learning. The person appointed will be expected to plan and conduct work using approaches or methodologies and techniques appropriate to the type of research and will be responsible for writing up their work for publication.

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	To develop research objectives and proposals for own and/or collaborative research area.	5
2	To plan and conduct research using recognised approaches, methodologies and techniques within the research area.	30
3	To analyse and illuminate data, interpret reports, evaluate and criticise texts and bring new insights to research area.	25
4	To write up research work for publication and/or contribute to the dissemination at national/international conferences, resulting in successful research outputs.	10
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 accreditation purposes.	2
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 co-ordinate the operational aspect of research networks, for example, arranging meetings and updating web sites etc and contribute to collaborative decision making with colleagues in area of research.	2

8	To provide support, guidance and supervision to other staff, where appropriate in own area of expertise.	5
9	To supervise undergraduate and/or postgraduate students projects, fieldwork and placements, as appropriate. To participate in the assessment of student knowledge and co-supervise projects at Masters level.	5
10	To collaborate with academic colleagues on areas of shared interest for example, course development, collaborative or joint research projects.	2
11	To plan and manage own research activity and resolve problems, if required, in meeting own/team research objectives and deadlines in collaboration with others.	2
12	To utilise and contribute to organising research resources and facilities, laboratories and workshops as appropriate.	5
13	To make a contribution to teaching, for example through laboratory demonstrations, lectures to postgraduate workshops and/or delivery of Level 1 modules.	2

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent oral and written communication skills, including the ability to communicate with clarity on complex information ▪ Proficient in Python programming with machine learning APIs 	
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience of developing and evaluating machine learning methods ▪ Evidence of knowledge of software development methodologies and version control ▪ Some practical experience of applying the specialist skills and approaches and techniques required for the role. ▪ Experience in use of research methodologies and techniques to work within area. 	<ul style="list-style-type: none"> ▪ Previous success in gaining support for externally funded research projects. ▪ Experience of developing new approaches, models, techniques or methods in research area. ▪ Experience of developing modern image segmentation methods ▪ Experience of developing deep learning methods ▪ Evidence of knowledge of data management and ETL approaches ▪ Experience in statistical modelling ▪ Evidence of publishing high quality research papers.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD (or close to completion) in Computer Science or related subject area. 	



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

