



Job title	Research Assistant	Job family and level	Research and Teaching Level 4a
School/ Department	Chemical and Environmental Engineering	Location	Coates Building, University Park

Purpose of role

The purpose of this role will be to assist and support the principal investigator in carrying out academic research which include literature searches, conducting experiments, carrying out analyses and tests and drafting of reports.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	To undertake supervised research which may include planning, preparing, setting up, conducting and recording the outcome of experiments within the framework of an agreed programme.	60%
2	To conduct literature and database searches and carry out analyses and/or tests and/or critical evaluations using specified and agreed techniques, approaches and/or models and document findings.	10%
3	To contribute to the production of research reports and publications.	5%
4	To prepare and present papers on research progress and outcomes to relevant groups including external bodies.	5%
5	To continue to develop skills in and knowledge of research methods and techniques and contribute to the development of/or choice of techniques, models, methods, critiques and approaches.	5%
6	To communicate information and ideas to students and advise and assist other staff/students within area of expertise.	5%
7	To build relationships with internal and external contacts to develop knowledge and understanding and form relationships for future collaborations.	5%
8	To work in conjunction with others in the research team, achieve objectives and deadlines of the research project.	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. ▪ Able to present your work in presentations, posters, and journal publications, in collaboration with other researchers and the PI. ▪ Developing research skills. ▪ Ability to plan and conduct experiments using microorganisms including cell growth and analytical characterisation. ▪ Ability to build relationships and collaborate with others, internally and externally. ▪ Ability to work independently. ▪ proactive in organising tasks and activities, coordinating with other departments for sample analysis or use of equipment, and communicating updates and any issues 	<ul style="list-style-type: none"> ▪ Demonstrates a desire to further develop skills and knowledge of research methods and techniques ▪ Excellent technical writing skills.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Evidence of sufficient breadth or depth of research methodologies and techniques to work in microbial process development. ▪ Experience with basic microbial techniques (aseptic technique, media preparation, growth and maintenance of cultures). 	<ul style="list-style-type: none"> ▪ Some practical experience of applying the specialist skills approaches and techniques required for the role. ▪ Evidence in the use of research methodologies and techniques to work within the research area ▪ Experience with analytical techniques including chromatography, spectrometry, and microscopy.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Master's Degree, or equivalent in Chemical/Biochemical Engineering, Biotechnology, or relevant subject area. 	<ul style="list-style-type: none"> ▪ PhD (or equivalent work experience) in Chemical/Biochemical Engineering, Biotechnology, or relevant 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



