



Job title	Research Fellow	Job family and level	Research and Teaching Level 4
School/ Department	Biosciences/ Plant and Crop Sciences	Location	Sutton Bonington Campus

Purpose of role

To carry out research associated with breeding strategies for maintaining yield in the face of climate change which is key for future food security. In plants, the N-degron pathway was identified as a key biochemical regulator of plant responses to environmental stress. This project focuses on assessing their impact of the mutant lines in controlled environments and in the field to develop germplasm with enhanced abiotic stress tolerance for plant breeding.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	Research To independently design, plan, carry out and analyse phenotyping and glasshouse and field-based research, as well as undertake other duties, such as administration where appropriate.	65%
2	Dissemination of research results To significantly contribute to the writing up of research papers, reports and presentation of research findings at high level national and international meetings to maintain Institute and University recognition.	20%
3	Support junior members of the group To assist in the supervision and training of undergraduate or postgraduate students, and technical staff as appropriate.	5%
4	Engage in Professional Development activities To continue developing professional research skills, keeping knowledge up to date through attendance at seminars and conferences, and initiate internal/external collaborations where appropriate.	5%
5	Adhere to H&S regulations To contribute to the safe and well-organised functioning of the laboratory.	5%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Demonstrable glasshouse and field laboratory skills in cereals including experimental design and analysis by GenStat. Design and statistical analysis of glass house experiments ▪ Developing research skills, with the ability to creatively apply relevant research approaches, models, techniques and methods. ▪ Excellent oral and written communication skills. ▪ Good time management skills, ability to prioritise and meet deadlines ▪ Crop Physiology background in cereals ▪ Germination assays ▪ Keep meticulous experimental records ▪ Plant/crop analysis of physiological traits ▪ Motivation and commitment with ability to prioritise and meet deadlines. ▪ An understanding of the issues of confidentiality and to conduct themselves in a manner that protects any confidential information in their possession. 	<ul style="list-style-type: none"> ▪ Demonstrable ability to analyse and interpret data, evaluate and criticise texts, bring new insights. ▪ Data handling skills (gene expression analysis, sequencing). ▪ Molecular biology and agronomy. ▪ Good interpersonal skills, with ability to work effectively as part of a team or independently as required. ▪ Willingness to learn new experimental/intellectual techniques.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Experience in scientific writing of reports and peer reviewed publications. ▪ Evidence of sufficient breadth or depth of research methodologies and techniques to work in the required research area. ▪ Experience in growing crops ▪ Ability to design, execute and write up experimental work independently and to trouble shoot failed experiments. 	<ul style="list-style-type: none"> ▪ Experience in molecular biology techniques (gene expression analysis/). ▪ A relevant publication record. ▪ Willingness to travel nationally to work and study for short periods at a time in collaborating laboratories ▪ Experience in supervising technical staff
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ PhD in plant/crop physiology, preferably addressing aspects related to water and N capture 	



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 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.
- Taking ownership** 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.
- Forward thinking** Driven to question the status quo and explore new ideas, supporting the team to "lead the way" in terms of know-how and learning.
- Professional pride** 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.
- Always inclusive** 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



