



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	School of Veterinary Medicine and Science	Location	Sutton Bonington campus

Purpose of role

The purpose of this role will be to support the principal investigator in the delivery of several funded research projects in the area of precision livestock informatics. This will include managing and utilising multiple large datasets to develop predictive models for dairy cow/calf health, welfare and behavior. Role holder will be developing advanced machine learning and AI tools. The post holder will be expected to undertake independent research as well as working as part of a team.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	To conduct data management and data analytics tasks of highest quality level in accordance with the aims and objectives of the research projects and produce useful outputs of impact that lead to peer-reviewed publications of international quality.	90%
2	To contribute to research supervision and training of undergraduates and postgraduates, and to contribute to the development of the research group and the School.	5%
3	To operate as an effective team player within the group and to be accountable to the line manager on the progress and daily running of the project.	5%

Person specification

	Essential	Desirable
Skills	<p>In-depth expertise in the use of advanced machine learning for data analysis applied to livestock farming.</p> <p>Strong programming skills in a suitable language (e.g. Matlab, Python, R, C++).</p> <p>Expertise in data processing and managing big data.</p> <p>Experience working with cloud computing.</p>	<p>High analytical ability to analyse and illuminate data, interpret reports, evaluate and criticize texts and bring new insights.</p> <p>Experience with textual data.</p> <p>Ability to work and thrive in a large group.</p>
Knowledge and experience	<p>Evidence of sufficient breadth or depth of research methodologies and techniques to work in machine learning and computer programming.</p> <p>Highly motivated, able to work independently, as well as highly effectively in interdisciplinary teams.</p> <p>Experience of presenting research at scientific conferences.</p>	<p>Experience of working in a multidisciplinary team.</p> <p>Experience in publishing in peer reviewed journals.</p> <p>Experience of working on highly mathematically-based research.</p>
Qualifications, certification and training (relevant to role)	<p>PhD (or close to completion) in mathematics, machine learning, artificial intelligence, computer science applied to dairy farming.</p>	<p>Master's Degree, or equivalent in mathematics.</p>
Statutory/Legal requirements	<p>Satisfactory basic disclosure obtained from the Disclosure and Barring Service.</p>	



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



