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| 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 | Biosciences/ Animal Sciences | Location | Sutton Bonington Campus |

Purpose of role

To carry out research developing novel protocols for the derivation of novel stem cell/iPSC from livestock species. The role involves working within a team designing and conducting experiments using relevant techniques, analysing and writing reports and publications.

| | Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role) | % time per year |
|---|--|------------------------|
| 1 | <p>Research</p> <ul style="list-style-type: none"> The post-holder will independently, and collaboratively plan and design experiments to contribute to one or more of the following four programme objectives. (1) To develop long-term cultures of bovine primordial germ cell like cells (PGCLCs). (2) To generate of bovine PSC-derived gametes in organ cultures and reconstituted gonads. The post-holder will keep abreast of relevant current literature to apply the most appropriate contemporary methods to address the scientific aims within the programme on gametogenesis in cattle and the generation of gametes. | 75% |
| 2 | <p>Dissemination of research results and interaction with industry partners</p> <ul style="list-style-type: none"> 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; as well as engaging with industrial collaborators and partners. The post-holder will also prepare reports for update meetings with the iBreed partners and programme organisers and contribute to the final report. | 10% |
| 3 | <p>Support members of the group and contribute to lab activities</p> <ul style="list-style-type: none"> To assist in the training of students, and technical staff as appropriate, and assist with maintaining essential research capabilities and laboratory facilities when necessary. | 5% |

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| 4 | Engage in Professional Development activities <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 laboratory skills including cell culture and molecular biology. | <ul style="list-style-type: none"> Post-graduate training in pluripotent stem cell culture, gene editing, gene expression analysis, and gene targeting. Data handling skills (RNA seq. data, gene expression analysis). |
| Knowledge and experience | <ul style="list-style-type: none"> Practical knowledge of pluripotent stem cell technologies. Practical experience in laboratory techniques such as gene cloning, qPCR, immunofluorescence, FACS. Evidence of relevant publication record. | <ul style="list-style-type: none"> First-hand experience of ovarian organ cultures and primordial follicle isolation. Experience in mammalian germ cell biology. Experience molecular biology techniques (gene expression analysis/protein expression/gene editing, FACS). Experience in genome editing applications in cells. Willingness to travel nationally to work and study for short periods at a time in collaborating laboratories |
| Qualifications, certification and training (relevant to role) | <ul style="list-style-type: none"> PhD in cell/developmental biology or related area of biological science (OR PhD students about to submit thesis in relevant area of stem cell biology will be considered) | |



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



