



Job title	Technical Specialist - Stem Cell Laboratories	Job family and level	Technical Services Level 4
School/ Department	School of Biosciences Division of Animal Sciences	Location	Sutton Bonington Campus

Purpose of role

The purpose of the role is to provide and take responsibility for specialist technical support, management, and delivery of key outputs from the stem cell laboratory at the School of Biosciences. The role is responsible for the specialised laboratory activities required for the derivation and characterization of stem cell lines from diverse livestock species, providing expert technical support, guidance and advice to staff and students within their area of work.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Specialist technical support work and management</p> <ul style="list-style-type: none"> ▪ Responsible for the technical organization and/or operation of advanced scientific experimental support and provision of specialist technical skills, techniques and knowledge within the stem laboratory at the School of Biosciences. ▪ To plan and organise operation of advanced instrumentation and experimental/technical work within the area of responsibility. ▪ Manage day to day functions, allocating work/responsibilities as required in all aspects associated with these operations (may include supervision of non-technical staff and involvement in performance meetings). ▪ Work with Line Manager, and colleagues, monitoring progress of projects/activities to meet key research timelines/performance indicators. 	50%
2	<p>Specialist Advice</p> <ul style="list-style-type: none"> ▪ Act in a consultant capacity and as a recognised source of technical and/or experimental expertise, advising both internal and external contacts on the development and application of specialised systems, techniques, experimental procedures and the analyses/interpretation of results. ▪ To provide technical guidance and advice to solve complex queries, provide support of grant applications and contribute to research publications. ▪ Liaise with commercial partners and commission cell lines. 	10%
3	<p>Conduct complex analyses</p> <ul style="list-style-type: none"> ▪ To conduct complex quantitative and qualitative analyses by: 	

	<ul style="list-style-type: none"> ○ Undertaking derivation and characterization of stem cell line using SOPs. ○ Performing cellular and molecular analysis (e.g. in vitro differentiation, FACS, karyotyping) and stock cell lines ▪ Contribute to the interpretation of the results and the development of research activity 	20%
4	<p>Identify opportunities to develop new techniques and procedures</p> <ul style="list-style-type: none"> ▪ Work alongside other team members to support cell culture and associated activities to identify opportunities to develop and implement new techniques, procedures and systems in the support of activity within the area. <ul style="list-style-type: none"> ○ May include contributing to the development of research through designing apparatus configurations/experimental design. 	10%
5	<p>Health and Safety</p> <ul style="list-style-type: none"> ▪ Ensure that the department complies with work-related legal and health and safety standards. ▪ Prepare/maintain COSHH and SOPs as required. ▪ Ensure the security of plant and machinery in own area. 	10%
6	<ul style="list-style-type: none"> ▪ Any other duties appropriate to the grade and role. 	

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Excellent proven skills in stem cell and molecular biology. ▪ Proven analytical and technical problem-solving skills. ▪ Excellent oral and written communication skills, to enable the identification and understanding of staff/student requirements. ▪ Ability to assess and organise resource effectively recognised from previous project management experience. ▪ Proven budgetary management skills ▪ Ability to adopt a methodical approach to prioritising work in order to achieve deadlines. ▪ Excellent customer relation skills. ▪ Ability to build effective working relationships and collaborate with others both internally and externally. 	<ul style="list-style-type: none"> ▪ Ability to identify and manage risks to enable effective project delivery ▪ Experience of fluorescence imaging and FACS analysis. ▪ Experience in working with embryonic stem cells and iPSC.
Knowledge and experience	<ul style="list-style-type: none"> ▪ Proven ability to work accurately in order to provide quality technical support with the ability to work effectively under pressure. ▪ Proven technical and/or experimental expertise in characterisation of cell lines.. ▪ A sound understanding of health and safety regulations and the implications of non-compliance. 	<ul style="list-style-type: none"> ▪ Knowledge of the derivation and characterization of stem cell lines and iPSCs. ▪ Experience in quantitative imaging techniques. ▪ Experience in gene editing and in vitro differentiation. ▪ Experience using MS-Office and specialist software (FACS analysis, imaging) ▪ Experience in planning and managing a laboratory, and in providing quality technical support with the ability to work effectively under pressure. ▪ Ability to understand, conceptualise and interpret the technical and/or experimental requirements of staff and students. ▪ Ability to identify and manage risks to enable effective project delivery.
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Minimum HNC or equivalent, plus substantial work experience in a relevant role or Proven track record with extensive work experience in a relevant technical or scientific role. 	<ul style="list-style-type: none"> ▪ Additional qualifications in a relevant area and/or laboratory skills e.g., health and safety. ▪ BSc/MSc or equivalent in biology or related biological science



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 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



