**Research Associate in Cryopreservation**

**Research Associate**

**School of Computing**

**Science, Agriculture and Engineering**

**Research Role Profile**

Working between the Institute of Genetic Medicine (IGM) and the School of Computing (CS), you will conduct experimental work in a multidisciplinary team, comprising Dr Roman Bauer (CS), Prof. Majlinda Lako (IGM) and Prof. Evelyne Sernagor (Institute of Neuroscience).

You will work on a project studying the impact of cryopreservation on different kinds of biological tissues, including mouse tissues and retinal organoids. Cryogenic processing protocols will be tested and assessed using a wide range of experimental methods, taking into account anatomy, gene expression and electrical activity. The goal of the project led by Dr Roman Bauer, in collaboration with GE Healthcare and CERN, is to model and improve tissue cryopreservation to yield high-quality post-thaw tissue.

**Specific Responsibilities of Position**

1. Conduct wet-lab experiments (immunostaining, electrophysiology, qPCR, ...)
2. Present research at international conferences and meetings
3. Write publications and reports
4. Student supervision

**Person Specification**

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|  |  | **Essential or Desirable** |
|  | **Qualifications** |  |
| 1 | PhD qualification in a bioscience discipline | E |
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|  | **Knowledge, Skills and Experience** |  |
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| 1 | Experience in several experimental techniques | E |
| 2 | High level of analytical and problem solving capacity. | E |
| 3 | Ability to communicate complex information with clarity and to encourage the commitment of others. | E |
| 4 | Presentations at conferences and/or high quality publications. | E |
| 5 | Aware of the ethical issues involved in their research work. | E |
| 6 | In a position to bring individuals skills and insights to the research. | E |
| 7 | Experience in immunohistochemistry, primary cell/tissue culture, qPCR and/or pluripotent stem cell differentiation. | D |
| 8 | Experience in at least one electrophysiology method, e.g. in patch clamp or multi-electrode array (MEA) recording. | D |
| 9 | Experience in the cryobiology | D |
| 10 | Detailed subject knowledge in the area of research. | D |
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|  | **Attributes/Behaviours**  |  |
| 1 | Willingness to learn new experimental techniques | E |
| 2 | Eager to publish and establish scientific track record | E |
| 3 | Able to work independently | E |
| 4 | Enthusiasm for working in an interdisciplinary team | E |
| 5 | Motivation to supervise students | E |
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| **SAP Position Number:** |  |
| **Grade:** | Choose an item. |
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