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## Human Resources

## Recruitment Handbook

**SELECTION CRITERIA**

Use this form to define the selection criteria for an academic position at the University of Adelaide.

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| **POSITION DETAILS** |  |
| **Title:** | Head, Data Science Unit |
| **School/Branch:** | South Australian ImmunoGENomics Cancer Institute |
| **Classification** | Level C |

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| **ESSENTIAL MINIMUM CRITERIA** |
| 1. PhD in Biostatistics or an equivalent field, with an understanding of bioinformatics and associated biology and a track record of collaborative publications. 2. Demonstrated expertise in standard clinical biostatistics as well as multi-omics data integration, and proficiency in relevant programming languages (e.g., R, Python) 3. A strong willingness to collaborate in the development and application of innovative computational methods, including machine learning and AI approaches, to cancer research problems. 4. Demonstrated ability to lead and mentor a small team of computational biologists and/or data scientists, including experience in supervising HDR students, while fostering a collaborative, cross-disciplinary, and high-functioning research environment. Evidence of an approach to work that creates a collegial and productive atmosphere, aligning with the University's Staff Values and Behaviour Framework (https://www.adelaide.edu.au/hr/organisational-development/university- values/staff-values-and-behaviour-framework) 5. Strong communication skills with the ability to effectively collaborate with wet-lab researchers, clinicians, and computational scientists, as well as explain complex concepts to non-technical audiences. 6. Experience in overseeing data management, including implementing best practices for data standardization, quality control, and ensuring compliance with data protection regulations. 7. An understanding of (human and animal) health and medical research ethics including experience with relevant processes and their application in a modern Australian health and medical research environment. 8. A significant track record of useful and widely acknowledged contributions towards institutional administration of a university, hospital or medical research institute. 9. Evidence of understanding of the issues surrounding research conduct expectations and an ability to mentor others. |

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| **DESIRED CHARACTERISTICS** |
| 1. Established track record of being a part of successful grant applications and project management in biostatistics and / or bioinformatics 2. Experience working with clinical trial data (eg clinicogenomics data) and electronic health records and in data harmonization across studies. 3. Experience with statistical analysis of large-scale genomic data sets (eg RNA-seq, DNA-seq, TCGA, SNP arrays). Experience with batch effect correction and data normalization across platforms and cloud as well as high-performance computing environments. 4. Demonstrated experience in the preparation of training, workshop and teaching materials. |