



SOUTH  
AUSTRALIAN  
GENOMICS  
CENTRE



## Senior Genomics Research Coordinator

### Position Details

- 2 Years Fixed Term | 1.0FTE (0.25FTE with SAGC/SAHMRI | 0.75FTE with Flinders University)
- SAGC/SAHMRI: \$94,206 - \$104,282 pro rata
- Flinders University: Higher Education Officer Level 7 | \$94,206 - \$104,282 pro rata

### About SAGC

The South Australian Genomics Centre (SAGC) is a multi-institutional, national genomics and bioinformatics facility that is supported by Government of South Australia and Bioplatforms Australia (BPA) through the Australian Government's National Collaborative Research Infrastructure Strategy (NCRIS). The SAGC has consolidated genomics and bioinformatics expertise in the state, with a group of more than 16 genomics and bioinformatics staff working side-by-side to deliver innovative genomics and bioinformatics solutions across all areas of genomics research, including agriculture, healthcare and ecology. The SAGC is hosted by South Australian Health and Medical Research (SAHMRI), located in the Adelaide CBD. Its Flinders Node (Node) is located in the new Health and Medical Research Building (HMRB) as the centrepiece of the Flinders Village development. This role is primarily based at the Flinders campus.

The facility has been pioneering in providing cutting-edge genomics technologies to its users since inception. The SAGC is the only genomics facility in Australia to offer the ultra-high throughput MGI T7 sequencing service. It also has established pipelines for spatial transcriptomics (e.g. STOmics, Xenium, Visium, CytAssist), single-cell genomics (e.g. 10x Genomics, Parse Biosciences), short-read sequencing (platforms such as MGI and Illumina) and long-read sequencing (e.g. Oxford Nanopore). The SAGC is also one of the three *10x Genomics* reference sites in Australia and is equipped with the complete tool set to carry out spatial transcriptomics and single-cell genomics projects utilising its leading technologies.

### About the Role

An exciting opportunity now exists to join the SAGC team. The successful candidate will play a vital role in ensuring that all services in the genomics laboratory are delivered within a quality framework, in an efficient and effective manner, meeting industry standards as well as stakeholders' requirements. The Senior Genomics Research Coordinator will work across multiple different projects and possess excellent organisational, collaborative and time-management skills. In addition, general to broad knowledge of current genomics technologies, next generation sequencing, laboratory and team management is required. High standard service delivery will include well-developed communication skills to maintain and develop stakeholder relationships and provide engaging workshops and presentations. Your career progression will be supported and you will be encouraged to participate conferences and seminars to keep up with the up-to-date technologies.

### Key Responsibilities

#### Laboratory Coordination

- Participating in the daily operations of the genomics laboratory, including advising on project design, sample processing, sequencing and reporting.



- Developing and implementing protocols and Standard Operating Procedures (SOPs) along with the SAGC Quality Manager, to ensure the accuracy, reproducibility, and efficiency of genomics workflows.
- Maintaining and troubleshoot laboratory equipment, ensuring proper functioning and coordinating repairs and maintenance as needed.
- Managing inventory, ordering, and stocking of consumables and reagents necessary for genomics experiments.

#### **Technical Expertise and Training:**

- Provide technical expertise and guidance to SAGC users on experimental design, sample preparation, data analysis, and interpretation.
- Stay current with advancements in genomics technologies and methodologies, and assess their potential applications.

#### **Quality Assurance and Compliance:**

- Working closely with the Quality Manager, implement quality control measures to ensure the accuracy and reliability of genomics data generated within the Node.
- Maintain thorough documentation of experimental procedures, results, and quality control measures.

#### **Collaboration and Communication:**

- Work closely with the rest of the team to achieve the success of the facility.
- Collaborate with stakeholders to understand their genomics needs and provide customised solutions and support.
- Contribute to a collaborative and inclusive environment within the facility, promoting knowledge sharing and interdisciplinary collaboration.
- Any other responsibilities in line with the level of the role as assigned by the SAGC Manager.

#### **Essential Criteria**

- Bachelor degree with Honours or equivalent in a relevant laboratory based field and relevant subsequent experience, or an equivalent combination of experience and/or education and/or training.
- Demonstrated experience with molecular biology techniques including handling of nucleic acids and high standard of laboratory skills.
- Have a broad understanding and hands-on experience in the following areas:
  - **Sample Receipt:** documenting, handling and storage for DNA/RNA samples
  - **Sample QC:** sample quantification and qualification
  - **Library generation:** library generation with various sample types (e.g. bulk RNA, whole-genome DNA, amplicon, single cell, tissue sections)
  - **Library preparation:** pooling, denaturation and loading flowcells before sequencing
  - **Sequencing:** platforms operation and maintenance such as Illumina Nextseq, Illumina Miseq, MGI-G400, MGI-T7, Chromium Controller
- Extensive knowledge and experience implementing novel workflows in a laboratory setting.
- Effective interpersonal skills with a demonstrated ability to network and liaise with stakeholders and staff.
- Demonstrated ability to take initiative in problem solving with excellent attention to detail.
- Ability to work in an organised, methodical way and to manage multiple ongoing projects.
- Ability to work unsupervised for periods of time.

#### **Desirable Criteria**

- Prior management experience in molecular laboratories
- Prior working experience in NATA-accredited laboratories



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Everything we do is underpinned by our core values and our institute is dedicated to grow a culture that pursues, enables and demands research excellence. We are proud of the work we do and work hard as a team to make a positive difference to the community. Our values of excellence, innovation, courage, integrity and teamwork are what help us achieve our goals. If these are also your values and goals, apply today.

As a not-for-profit organisation, SAHMRI employees can access salary packaging options up to \$15,900. Salary packaging lets you pay for things like the everyday costs of living with money from your salary before tax. This reduces your taxable income, meaning you could pay less tax and take home more of what you earn. For more information on salary packaging please see the [Maxxia website](#).

For a copy of the position description, please [click here](#).

**Applications close:** 11:29pm ACST [Insert Date](#) (all vacancies close at 11:59pm Sydney time)