



Position Description

POSITION TITLE:	Statistician
LOCATION:	SAHMRI, North Terrace
REPORTS TO:	Senior Research Fellow, Registry of Senior Australians Research Centre
DEPARTMENT:	Registry of Senior Australians Research Centre

PURPOSE AND SCOPE OF THE POSITION

The Registry of Senior Australians Research Centre (ROSA) (<https://rosaresearch.org/>) established in 2017, was designed to monitor the health, service utilisation, medication use, mortality, and other health specific outcomes of people receiving aged care services. ROSA's efficient model leverages existing information, bringing together diverse datasets collected by different organisations throughout the country, to provide us with a whole picture of the ageing pathway. ROSA produces evidence to guide decision-making for quality, coordinated, efficient, innovative, and age-friendly services and practices.

ROSA is funded by the Australian Government Medical Research Future Fund, National Health and Medical and its collaborating partners (SAHMRI, ECH Inc, Silver Chain, Bolton Clarke). ROSA is supported by its key partners, SAHMRI and Caring Futures Institutes at Flinders University and is coordinated under the auspice of SA's prestigious, NHMRC-awarded, Health Translation SA.

This position's purpose is to conduct and lead high quality research with a focus on aged and health care services for older people that supports ROSA's core goals. This position will use analytical/statistical methodologies to produce the evidence necessary for practice and policy recommendations to improve the consistency and quality of care provided to older Australians receiving aged care services. Specifically, this position will work to build evidence of care quality delivered to older people accessing home care and contribute to other ROSA projects. This position will work independently and also with ROSA's lead researchers and analytical team.

The role will also interact with a range of external key stakeholders such as external research partners and collaborators where necessary.

Reporting to the Senior Research Fellow, Registry of Senior Australian's Research Centre, this position will also work closely with the ROSA research and analytical team in the development and conduct of analytical ROSA research projects and related research. The role will also interact with a range of external stakeholders including SAHMRI staff, research partners and collaborators, lived experience contributors (consumers), ROSA's governance committees, ethics committees, and data owners/custodians. There are no current direct reports for this role.

KEY RESPONSIBILITIES

The specific duties include: Standard Responsibilities below, insert role specific responsibilities/duties.

- Conduct high quality research with a focus on aged care and health services for older people accessing aged care, including planning, execution, statistical analyses, report writing and publication.
- Conduct a project within ROSA to examine the care quality delivered to older people accessing home care, and other projects to meet the goals of ROSA.



- Conduct complex analyses of large datasets (>1 million individuals) contained within ROSA, including aged care data, Pharmaceutical Benefits Scheme data, Medicare Benefits Schedule data, hospitalisation records and Department of Social Services Data On Multiple Individual Occurrences (DOMINO) data.
- Co-ordinate input on projects from lived experience contributors (consumers) and stakeholders.
- Contribute and advise in study design. This includes development of study protocols, analytical plans, and sample size calculations.
- Undertake and coordinate high level statistical analyses, including complex multivariable modelling, and survival analysis. Knowledge of sophisticated techniques to handle missing data, confounding adjustment, and other observational data features are highly desirable.
- Undertake studies regarding quality and safety monitoring, variation in care quality, and value-based care.
- Manage and coordinate research projects needs through their lifecycles. Advise/monitor project timelines, milestones, and deliverables.
- Collaborate with analytical team data management, linkage efforts, and quality control processes when necessary for ROSA's implementation, performance enhancement, and other areas as needed.
- Work collaboratively with ROSA team, research partners and stakeholders of the research projects.
- Maintain good understanding of new statistical developments and methodology that should be considered for ROSA's activities.
- Working independently as well as collaboratively with ROSA team, research partners, consumer representatives, staff and stakeholders of the research projects.
- Prepare methods and analysis results for papers for to be published in peer-reviewed journals.
- Participate in the dissemination of research findings at appropriate conferences.
- Monitor and report on progress against key performance indicators.
- Contribute to the preparation of grants and applications for competitive funding in related areas.
- Any other responsibilities in line with the level of the position as assigned by the Supervisor and/or SAHMRI.
- Participate in special projects to continuously improve processes, tools, systems and organisation.
- Take reasonable care to protect own health, safety and welfare at work and avoid affecting the health and safety of any other person at work.
- Participate in the implementation of the Institute's Work, Health and Safety Management System and related laws, regulations and guidelines.
- Ensure that duties are performed in keeping with the principles outlined in SAHMRI's Vision, Mission and Values and the **Code of Conduct Policy**.

SPECIAL REQUIREMENTS

- Some out of hours work may be required.



Person Specification

QUALIFICATIONS

- Degree qualification in a relevant field with extensive relevant experience.
- Masters or PhD in Statistics, Biostatistics, Epidemiology, Biomedical Informatics, Bioinformatics, Health Services Research, Ageing, Geriatric/Gerontology, Public Health, Medicine or related field highly desirable.

EXPERIENCE, KNOWLEDGE AND SKILLS

- Excellent proficiency working with at least one software package (i.e., Stata, SAS or R).
- Three years' experience working with large datasets independently. Preferable experience working with aged care and/or health service data.
- Experience working with observational data, multivariable modelling, confounding/interaction issues, survival analysis, data visualisation.
- Knowledge of the aged care and health care systems in Australia (desirable).
- Meticulous attention to detail; methodical with excellent record keeping skills.
- Demonstrated experience in providing high level support to research projects.
- Highly motivated and can prioritise workload to meet deadlines.
- Ability to work independently, seeking support when necessary to complete the task.
- Ability to work in a team, intelligently manage relationships and establish rapport effectively.
- Advanced proficiency in the use of Microsoft Office Suite of products.
- Excellent written and verbal communication skills.
- Sound time management skills.
- Support SAHMRI's commitment to reconciliation and acknowledge the importance of working in partnership with Aboriginal and Torres Strait Islander People
- Able to demonstrate the following SAHMRI Values and Culture:
 - **Innovation** – Bold, Driven, Dynamic
 - **Excellence** – Persistent and Focused
 - **Courage** – Collaborative and Enabling
 - **Integrity** – Embrace Diversity, Demand Equity
 - **Teamwork** – Friendly, Fast, Flexible, Fun