Position Description

Position Title:	Data Analyst/Developer
Salary Range:	Research Salaries Level A – Steps 1-8 (based on experience)
Reporting Manager:	Prof. Jim Buttery
Direct Reports:	None
Home Group:	Health Informatics

Who are we?

The Murdoch Children's Research Institute (MCRI) is home to significant scientific discoveries. We believe there is an answer, a cure or a better treatment for every childhood condition — and we're determined to find it.

We are a diverse team of world-leading researchers, doctors, engineers, and hardworking professionals in corporate and scientific services from all corners of the world with one shared goal — to transform child health worldwide.

Our strength lies in our partnership and co-location with The Royal Children's Hospital and the University of Melbourne — the Melbourne Children's Campus. This rare model amplifies opportunities to quickly translate research into clinical care.

At MCRI, you'll also find our subsidiary organisation, the Victorian Clinical Genetics Services (VCGS), a specialist childhood, prenatal and adult genetics service. VCGS provides an integrated genetic consultation, counselling, testing and diagnostic support service to children, adults, families and prospective parents.

Together, we share a powerful vision: re-imagine the future of child health.

What is it like to work for us?

We are committed to ensuring a positive working environment that values all backgrounds and experiences. We cultivate an inclusive culture that is underpinned by equal opportunity for all and a culture based on respect, consideration and dignity. We are also committed to developing our people and fostering an environment where learning and development is central to our staff reaching their full potential.

Position Overview

SAEFVIC is a specialist vaccine safety service focusing on vaccine safety and surveillance and is a national leader in vaccine safety. It helps immunisation providers report and manage both children and adults who have had (or are at increased risk of) an adverse event following immunisation (AEFI). SAEFVIC has two main arms, with the SAEFVIC clinical team part of the Infection and Immunity theme at Murdoch Children's Research Institute, and the SAEFVIC Epidemiology and Signal detection team based in the MCRI Health Informatics group at the new Centre for Health Analytics of the Melbourne Children's campus (healthanalytics.org.au). The Epidemiology and Signal detection team manage the state-wide surveillance system, reporting to the Department of Health, Victoria and nationally on AEFI trends and potential signal detections. Research activities include the investigation and validation of AEFI signal events and establishment of enhanced signal detection methodologies including near real-time surveillance from a range of health data sources, and the establishment of vaccine safety data linkage in Victoria. SAFEVIC engages with networks focussing on vaccine-related issues of public health importance and supports the National Immunisation Program, including roll out of the COVID-19 vaccination program.This role supports the data analysis operations and objectives of both SAEFVIC and the Health

Informatics group, including database management, maintenance, optimisation and data analytics; and maintenance and enhancement of informatics tools and platforms.

Key Accountabilities

- Contributing to efforts that advance the data analytic and programmatic capability of SAEFVIC to inform on vaccine safety
    - Managing and developing data projects hosted in REDCap and other databases, and responding to routine and abrupt/urgent requests and issues.
    - Supporting the team in maintaining and developing PowerBI reports and similar business intelligence tools, such as managing relationships between distinct datasets.
    - Conducting vaccine safety data analysis to support routine and COVID vaccine surveillance.
    - Supporting in conveying key data messages, through appropriate data visualisation techniques and methods.
    - Contributing technical expertise to requirements analysis to enhance the quality of the solution design.

- Contributing to database management to ensure the quality, accuracy and integrity of data
    - Maintaining and developing SQL queries.
    - Contributing to ensuring that large and/or complex data is accessible and usable.
    - Supporting in exploring discoveries arising from the datasets using innovative questions and innovative methods.
    - Supporting data mapping and interoperability to enable efficient data integration and relevant migration to new platforms.

- Fostering relationships with key internal and external stakeholders.
- Is engaged in the campus culture including professional development activities, membership of campus committees, and contributing to/attending internal/external campus conferences and seminars.

Selection Criteria

- Relevant Master's or higher-level qualification in field related to data analysis, computing, and/or computer science. Graduate-level applications welcome.
- Experience/proficiency in managing database projects, preferably in REDCap.
- Experience/proficiency in using business intelligence tools.
- Experience in R, SQL. Proficiency with other programming tools, eg, Julia and Python preferrable.
- Advanced communication, presentation and writing skills.
- Demonstrated appropriate level of expertise gained from a combination of experience, training or professional accreditation/qualification.
- Demonstrated capacity to work independently and collaboratively in a team environment.
- Agile and flexible, with the ability to work under own initiative in a dynamic and rapid response environment.
- Experience with large datasets and data linkage is preferred.

Conditions of Employment

- Working with Children & National Police Clearance (if appointed) in compliance with the Victorian Governments Child Safety Standards.
- The right to reside and work in Australia and you meeting any applicable visa conditions.

Health, Safety & Wellbeing

- We are committed to providing and maintaining a working environment which protects the health, safety and wellbeing of our people, partners and the community.
- Employees conducting duties on behalf of MCRI are expected to meet the environment, health and wellbeing requirements and responsibilities specifically required for the role.
- We are committed to supporting children in their right to be safe and adhere to the responsibilities we have to ensure their protection and safety as per the Child Safety Standards Policy.
- Specified positions may be subject to medical review to ensure that the inherent requirements of the role can be undertaken safely.

As MCRI evolves to meet its changing strategic and operational needs and objectives, so will the roles required of its employees. As such, this document is not intended to represent the position which the occupant will perform in perpetuity. This position description is intended to provide an overall view of the incumbent's role as at the date of this statement.