

JunPosition Description	
POSITION TITLE	Junior Programmer
CAREER STEP	Professional / Associate Professional Roles
REPORTING RELATIONSHIP	Research Programmer
PROGRAM	Global Brain Health Program
EMPLOYMENT DURATION	1 year
TYPE OF EMPLOYMENT	1 FTE
DATE	1 October 2022

The George Institute for Global Health

We are a medical research institute affiliated with leading universities aiming to challenge the status quo in health care. With 700+ people around the world, and projects in over 40 countries, our Strategy 2025 is all about impact – specifically, the impact of The George Institute’s activities on the health of millions of people, particularly those living in disadvantaged circumstances around the world.

Our strategy focuses on three key research priorities:

- Better Treatments: finding better treatments for the world’s biggest health problems
- Better Care: transforming primary health care to support better health for more people
- Healthier Societies: harnessing the power of communities, governments and markets to improve health

Our innovative commercial enterprises help maximise our impact.

Here is a sample of the things we are doing to achieve our goal of having the greatest possible impact on global health:

- We are identifying better and safer treatments for our biggest killers like stroke, heart disease and high blood pressure;
 - In many countries, our award winning FoodSwitch smartphone app is helping people make healthy food choices when shopping;
 - In China, we ran a successful education and awareness program to reduce the amount of salt eaten by people by 25% each day
 - In rural India, we have shown that mobile technology can help diagnose mental health, as well as help treat cardiovascular disease, and we’re looking at similar approaches to treating chronic diseases in Indonesia and China;
 - Together with Aboriginal communities in NSW, Australia, we developed an innovative community led program to assist young Aboriginal drivers attain their license, now implemented in a dozen of locations;
- We are developing an affordable dialysis machine, with potential to save millions of lives each year and transform the way kidney disease is treated globally.

Context of the Role

TGI, through the Global Brain Health Program, has an established program of research focused on generating reliable evidence to promote effective strategies for healthy brain function. The progressive ageing of the world’s populations is associated with a steady increase in age-related diseases. Among



these, diseases of the brain – cerebrovascular disease, dementia, Alzheimer’s disease and other neurodegenerative disorders - are particularly common and major causes of disease burden, not only due to the disability among those affected but also because of the demands on caregivers both formal and informal. Advances in epidemiological and clinical research, and better knowledge of the mechanisms of brain, degeneration and repair, suggest great potential for improvements to be made in the prevention, treatment and recovery of brain related disability.

The Role

The Junior Programmer is required to support the research and advocacy work of the various projects in the program as well as being responsible for the administrative responsibilities associated with the program.

Reporting Relationships

The Junior Programmer reports to the Research Programmer at the Global Brain Health Program for daily responsibilities as well as overall direction. The Junior Programmer will work closely with Program and Project Manager/s, who will be their secondary and tertiary supervisors. The Junior Programmer will work collaboratively with the Professorial Fellow and Research Fellow within the Global Brain Health Program, and other George Institute staff as required.

Duties and Key Responsibilities

- Act as a Junior Programmer perform design and implementation tasks and solutions for various research databases and platforms.
- Produce high quality code with excellent test coverage
- Code reviews, efficient and effective code maintenance
- Analyze research requirements and break down into system development tasks
- Define processes and standards within the team and contribute to the continuous improvement of database and system development
- Produce a high standard of technical documentation
- Manage and maintain study databases and platforms, including monitoring research data, generating queries and reports when needed
- Provide technical expertise for new and ongoing initiatives to work with project stakeholder to come up most feasible technical solution.
- Identify, resolve, and/or escalate all issues that threaten the successful delivery of assigned initiatives.
- Research and contribute to development of potential new technologies
- Assist with planning and organising regular meetings
- Preparing paperwork required by the study and any study materials
- Assist in managing effective communication with the key stakeholders (participants, clinicians and investigators)
- Ad hoc project work as required
- Provide administrative and technical support to study team

As a Team Member:

- Participate in special projects to improve processes, tools, systems and organisation;
- Take responsibility for personal learning and development and for setting achievable and meaningful work objectives and managing personal targets, meeting obligations of The Institute’s Performance Management and Development Policy;
- Demonstrate commitment to The Institute’s organisational values, including performing to an exceptionally high ethical standard and focus on integrity, collaboration and teamwork in all efforts.



Work, Health and Safety

- Comply with Work Health and Safety legislation and operate in accordance with established Occupational Health and Safety practice and procedures at the Institute;
- Promote and contribute to a safe, secure environment for staff and visitors.

Skills, Knowledge and Experience

Essential

- Hands-on experience in software development using Java, python and PHP
- Experience in object-oriented programming and concepts
- Experience in UI and frontend development
- Proven track record in delivering highly available, scalable systems on time
- Experience in driving Integration testing, UAT with users
- Experience developing data-driven applications using an industry standard database (SQL/NoSQL)
- Experience in Unix based development environment
- Experience in both development and quality assurance activities
- Tertiary qualifications in information technology discipline
- Excellent written language communication skills and ability to draft a wide range of documents
- Excellent organisational skills, having the ability to organise, take initiative and follow up independently
- Methodical and systematic, with good attention to detail
- Proficient in the use of the Microsoft Office suite of products, including Word, Excel, PowerPoint and Outlook and the Internet
- Ability to be flexible and adaptable in the face of changing organisational priorities
- Ability to work well within a research team and excellent interpersonal skills
- Strong focus on quality of work.