POSITION DESCRIPTION

Associate Professor, AI in Public Health

Position Level | Level D
Faculty/Division | Medicine & Health
Position Number | 00104741
Original document creation | 5/5/2022

Position Summary

The Kirby Institute is a world-leading health research institute at UNSW Sydney. We work to eliminate infectious diseases, globally. Our specialisation is in developing health solutions for the most at-risk communities. Putting communities at the heart of our research, we develop tests, treatments, cures and prevention strategies that have the greatest chance of success.

The Associate Professor will provide leadership in research in the subject area of artificial intelligence in public health, with a focus on epidemic detection, prevention and mitigation and EPIWATCH. To be an independent researcher and to actively advance research profile with publications in peer reviewed journals, applications for competitive funding, higher degree student supervision, strategic linkages with industry in the field of AI and digital public health.

The Associate Professor will play a key role in the multidisciplinary infectious disease research team supporting the Shiba Inu OSINT initiative. They will lead a team of epidemiologists and software engineers to work on the EPIWATCH system, an open-source epidemic intelligence (OSINT) observatory, using machine learning and natural language processing. The Associate Professor is responsible for leading the EPIWATCH team to meet a series of deliverables and deadlines for the Shiba Inu OSINT Initiative. This involves the development of dashboards in languages other than English in India and selected countries. They will work closely with the EPIWATCH Manager to manage and prioritise workflow to ensure deadlines are met.

The role of Associate Professor reports to the Head, Biosecurity Program and has two direct reports, the EPIWATCH Manager and the Operations Manager, but will work closely with post-docs and students on the team in research.
**Accountabilities**

Specific accountabilities for this role include:

- Lead research in the use of AI in public health and create and lead an EPIWATCH research group, attracting research students, industry and other partners into research projects.
- Take a leading role in research development and governance activities at The Biosecurity Program and represent the Head in high level engagements where required.
- Lead the EPIWATCH team of epidemiologists, analysts and researchers to monitor and analyse infectious diseases outbreaks and ensure high research outputs from the team.
- Oversee the success of the EPIWATCH Shiba Inu OSINT Initiative, working closely with the Head and the EPIWATCH Manager.
- Seek research grants and research collaborations at national and international levels.
- Supervise research degree students enrolled in Masters, PhD and DrPH degrees.
- Transfer research and development findings through presentations, publications, refereed articles, journal papers, educational bulletins and information systems at expected standard for a Level D academic.
- Build and develop strategic industry partnerships for EPIWATCH and AI in public health.
- Align with and actively demonstrate the [UNSW Values in Action: Our Behaviours](https://www.unsw.edu.au/code-conduct) and the [UNSW Code of Conduct](https://www.unsw.edu.au/code-conduct).
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

**Skills and Experience**

- PhD degree in health
- Medical or public health qualifications.
- Demonstrated high level skills and track record in public health, epidemiology and the use of artificial intelligence and machine learning in medicine and health, including peer reviewed publications on AI in health.
- Established mid-career researcher with excellent track record in peer-reviewed publications and grant success as expected at level D.
- Demonstrated ability to work independently in a goal-directed manner yet collaboratively with other staff and external providers.
- Ability to engage with key stakeholders as an ambassador for EPIWATCH nationally and internationally.
- Excellent interpersonal skills, and a proven ability to work well both independently and within a team.
• Demonstrated organisational and time management skills
• Excellent oral and written communication skills, with proven ability to write peer reviewed publications and other documents.
• An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.
• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training

PRE-EMPLOYMENT CHECKS REQUIRED FOR THIS POSITION
• Verification of qualifications

About this document
This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.