Make it _matter_.

Software Engineer

Faculty/Division	Engineering
Classification Level	Professional 6
	G - Administrative, Clerical, Computing, Professional &
Hours & Span (Category)	Research Staff
Position number	00107122
Shiftwork status	NOT SHIFTWORKER
Allowances	NA
On call arrangements	NA
Original document creation	2 January 2024

Position Summary

A **Software Engineer** plays a key role within the Faculty of Engineering in providing practical implementation of project ideas so outcomes can be demonstrated to key stakeholders.

The role entails software engineering to develop working prototypes, demonstration and communication of the practical outcomes, providing analytical and reporting support, and supporting key internal and external relationships that are key to project success.

The role reports to Professor Vijay Sivaraman, supporting the Software Defined Networking (SDN) Lab in the School of Electrical Engineering and Telecommunications. The role has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Support the software implementation needed by projects and initiatives within the Software Defined Networking (SDN) Lab in the School of Electrical Engineering and Telecommunications.

- Collaborate with other team members in the development of the web-based system.

- Conduct experimental analysis of the developed system.

- Present updates to supervisors and the entire research team as requested.

- Create well-written documentation for software development.

- Align software development plans and schedules for the specified projects and participate in planning processes as required. This may include providing input on procedures, systems, priorities, and timelines.

- Directly contribute to the industry-funded CRC-P project by architecting and implementing sophisticated software, in conjunction with the project team, for detection and performance measurement of online cloud gaming on various user devices.

- Monitor, track and report on the status of project deliverables to ensure time, cost and quality metrics are in line with approved project plans for assigned projects.

- Provide practical and proactive project support and services to the project team and stakeholders.

- Assess and monitor project risks and issues and provide solutions where applicable.

- Maintain effective communications with key stakeholders, both internal and external to the project.

- Support adherence to UNSW governance pathways to ensure projects are managed within a defined, consistent and proven set of rules for project development.

- Align with and actively demonstrate the [UNSW Values in Action: Our Behaviours](#) and the [UNSW Code of Conduct](#)

- Cooperate with all health & safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the psychosocial or physical health and safety of yourself or others.

Skills and Experience

- An undergraduate degree in computing / mathematics / electronics engineering, coupled with some relevant software development experience.

- Excellent written and verbal communication skills, with a high level of attention to detail for deliverables produced.

- Stakeholder management skills, with the ability to liaise effectively with a range of stakeholders.

- Experience working with a range of computer systems and applications, including GoLang and Python for programming.

- Excellent time management skills, with a demonstrated ability to respond to changing priorities, manage multiple tasks and meet competing deadlines by using judgement and initiative.

- Demonstrated ability to work collaboratively and productively within a team, but also to take initiative and work independently while managing competing demands.

- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.

- Knowledge of health & safety (psychosocial and physical) responsibilities and commitment to attending relevant health and safety training.

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.