

UWS POSITION STATEMENT

POSITION DETAILS:

Position Title: Associate Professor/Professor in Health Informatics

Establishment No: 7003152

School/Office: School of Computing and Mathematics

College/Division: College of Health and Science

CONTEXT:

The University of Western Sydney is a large multi-campus university servicing a diverse range of students. The School of Computing and Mathematics operates within the College of Health and Science. The School utilises the synergy of mathematics, statistics, and broad information and communication technologies.

The school takes pride in educating students in an environment that is contemporary, challenging, and adapted to a rapidly evolving world. The school's teaching and research programs cover a broad range of professional and other disciplines including Artificial Intelligence; Data Management and Mining; Mathematical science; Statistics and Decision Making; Information System Management; Networking Systems and Information Security; Software Engineering; Web Engineering; Computer Forensics; Information Visualisation, Graphics and Virtual Reality.

The School plans to enhance existing and advance new areas in its teaching-research nexus. Health Informatics - the fusion of Information and Communication Technology (ICT) with medical and biological sciences, and organisational aspects of health care, is a key area of teaching, research and international collaboration in the School. Areas of teaching and research currently include, but are not limited to Administrative Systems (Admission and Financial); Patient Journey Transformation; Integrative biomedical (clinical and biological) data collection and analysis systems; IT-enabled Clinical Analysis and Research; IT-enabled Training; Telemedicine and Telehealth; Virtual Reality Anatomy Models and other related ICT services related to the Health Care

As part of the College of Health and Science Strategic Lectureship Initiative we seek a forward thinking and innovative scholar to take on the role of Associate Professor (Level D) / Professor (Level E) in the field of Health Informatics. The appointee will be based at the Campbelltown Campus of UWS, but multi-campus teaching may be required.

PURPOSE/MAJOR RESPONSIBILITIES:

The successful applicant is expected to capitalise on and develop further the existing momentum that the School has developed in the area of Health Informatics and will contribute to building the cross-disciplinary trade-mark of the College of Health and Sciences, and UWS.

The successful applicant is expected to:

- provide the research leadership in the area of Health Informatics;
- establish strategic partnerships in the area of Health Informatics with other divisions within the College, the University, Western Sydney Region and beyond;

- provide academic leadership for developing courses and units in Health Informatics related areas;
- liaise with other divisions within the College and the University in relation to developing and delivering Health Informatics related units.

This range of academic activities includes the development, coordination and teaching of units in the Health Informatics Key Program in the new BComp degree and the development and delivery of a Health Informatics unit for the College.

The appointee will be expected to conduct research and supervise undergraduate and postgraduate students in the area of Health Informatics and her/his other areas of expertise. ICT offers a tremendous potential to improve radically the delivery and effectiveness of health care through evidence-based clinical decision support, data mining and visualisation of integrated biomedical data sets, workflow modelling and integrated enabling of the healthcare processes, formalisation and computerisation of the clinical guidelines. ICT has also an impact on medical and biological sciences, facilitating the information and knowledge discovery and synthesis in the fields through, for example, text mining of scientific publications and the analysis of large volumes of gene-expression data. These are just few of the possibilities.

The appointee will work closely with research and teaching staff in the Health Informatics Research Group (www.scm.uws.edu.au/hir/), the School of Computing and Mathematics, as well as with respective researchers in the School of Biomedical and Health Sciences and the School of Medicine.

REPORTING RELATIONSHIPS:

The position reports to the Head of School of Computing and Mathematics via delegated authority to an Associate Head of School. The successful applicant will be subject to the University's Annual Performance, Planning and Review (APPR) process.

SCOPE:

A Level D academic is expected to make significant contributions to the research and teaching efforts of the School and University, including the supervision of honours and postgraduate research students. A Level D academic will be expected to provide leadership in, and foster excellence in, research relevant to their discipline area.

A Level E academic is expected to have attained recognition as an eminent National or International authority in their discipline. A Level E academic is expected to make original, innovative, and distinguished contributions to scholarship, research, and teaching in their discipline, and to make a commensurate leadership contribution to the School and the University.

Professors and Associate Professors are expected to contribute to the strategic directions of the School, and all Professors of the University are expected to contribute actively to the governance processes of the University.

KEY FUNCTIONS/RESPONSIBILITIES/DUTIES:

- Coordination, preparation and delivery of relevant units to undergraduate and postgraduate students, including feedback and assessment
- Contributions to further development of undergraduate and postgraduate units and programs within the discipline area
- Undertaking of research and supervision of undergraduate and postgraduate research students in collaboration (where relevant) with other academic staff
- Publishing research articles and preparation and submission of internal and external research grant proposals
- Facilitating and maintaining good communication with staff and students
- Participation in administration and attendance at meetings as required within the School and College
- Ensuring compliance with Occupational Health and Safety obligations imposed on employers and employees under Sections 15 and 22 of the NSW Occupational Health and Safety Act 2001, and the Occupation Health and Safety duties and responsibilities of Management, Supervisors and employees contained in the UWS's Policy and Procedures Manual.

SELECTION CRITERIA:

- PhD or equivalent in the area of Computing and Information Technology or related discipline.
- A broad-based knowledge of Health Informatics and related areas.
- Extensive demonstrated experience in quality teaching at tertiary level, including ability to facilitate learning in small and large groups, and to utilise forms of blended learning
- Demonstrated experience in progressing research initiatives from inception through to publication. Evidence of relevant publications is required.
- Experience (individually or as part of a team) in writing successful research grant proposals
- Excellent oral and written communication skills, including interpersonal skills and the ability to work effectively in a team
- A demonstrated understanding of the principles of equal opportunity, equity and occupational health and safety and the willingness and capacity to implement equal opportunity, equity and occupational health and safety plans and programs