POSITION DESCRIPTION

Research Associate
Fluid Dynamics Associated with Sports

Position Summary

The Research Associate position is situated within the School of Engineering and Information Technology. As a member of a research team, the Research Associate will undertake research as directed by the Team Leader / Chief Investigator (CI). The position will involve research activity in multidisciplinary settings requiring skills such as advanced computational fluid dynamics, immersed boundary method, lattice Boltzmann method, turbulence modelling, sport-associated fluid/aero dynamics and biological flows. The Research Associate will contribute to the development of research results and their publication in international journals, participate at a national and/or international conference/s and undertakes a range of teaching duties.

The role of Research Associate reports to the Research team leader and/or the Chief Investigator (CI) of the grant.

Accountabilities

Specific accountabilities for this role include:

• Conduct research as directed by the research team leader.
• Prepare reports summarizing the results gained from the research.
• Prepare journal and conference publications based on the research.
• Contribute to the preparation of research proposal submissions to external funding bodies.
• Contribute to School teaching activities as required.
• Interact with undergraduate and postgraduate students and assist in their supervision.
• Undertake a range of administrative tasks as directed.
• Contribute to the common activities of the School, Faculty and University.
• 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
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.

Skills and Experience

• A PhD in Engineering/ a relevant area/ discipline that complements the breadth of expertise of the School.
• A demonstrated ability to conduct innovative and independent research.
• A record of papers in high quality journals and/or conferences of high ranking in the field.
• Ability to conduct high quality teaching in a University environment and willingness to undertake teaching duties as required.
• Excellent interpersonal, oral and written communication skills appropriate for interacting effectively with team members, collaborators and colleagues across the Faculty.
• Demonstrated ability to work as a member of a multi-disciplinary team showing initiative and taking direction as appropriate to the situation.
• Demonstrated ability to complete tasks within agreed time frames, with suitable supervision.
• Knowledge of health and safety responsibilities and the ability and capacity to implement required UNSW health and safety policies and procedures.

Pre-Employment checks required for this position

• Verification of Qualifications
• Criminal History Check
• Identification Check

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.
POSITION DESCRIPTION

Senior Research Associate
Fluid Dynamics Associated with Sports

Position Level | Level B
Faculty/Division | UNSW Canberra (ADFA)
School | Engineering and Information Technology
Position Number | 00030754
Original Document creation | 15/07/2020

Position Summary
The Senior Research Associate Position supports the research and teaching activities of the School of Engineering and Information Technology. The Senior Research Associate will be involved in advancing the School’s international profile by conducting scholarly research in multidisciplinary settings requiring skills such as advanced computational fluid dynamics, immersed boundary method, lattice Boltzmann method, turbulence modelling, sport-associated fluid/aero dynamics and biological flows, contributing to the supervision of research students, and will be required to teach in a range of undergraduate and postgraduate courses offered by the School. The position will also contribute to the effective functioning of the School by undertaking a range of other administrative duties.

The role of Senior Research Associate reports to the Research team leader and/or the Chief Investigator (CI) of the grant and currently does not have direct reports.

Accountabilities
Specific accountabilities for this role include:

- Conduct research as directed by the research team leader and/or the CI of the grant.
- Conduct research in computational fluid dynamics, immersed boundary method, lattice Boltzmann method, turbulence modelling, sport-associated fluid/aero dynamics and biological flows.
- Prepare reports summarising the findings gained from research and prepare research proposals for submission, including applications for external funding.
- Undertake a range of high-quality teaching activities within the School.
- Develop new and review existing course/educational material as appropriate.
• Supervise and provide training to higher degree research students as appropriate.
• Assist in the supervision of PhD students and honours students.
• Attend departmental and faculty meetings, hold membership on university committees and participate in professional activity as appropriate.
• Undertake a range of administrative tasks as directed by the Supervisor or Head of School.
• Ensure hazards and risks are identified and controlled for tasks, projects and activities that pose a health and safety risk within your area of responsibility.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.

Skills and Experience
• A PhD in a relevant area/discipline that complements the breadth of expertise of the School.
• A demonstrated ability to work positively and cooperatively in a teaching and research-intensive environment.
• An emerging record of excellence in research and publication.
• An emerging track-record for securing research support from competitive grant schemes.
• A demonstrated ability to undertake quality teaching of both introductory and specialist courses at undergraduate and postgraduate level.
• The ability to apply new and innovative methods for teaching.
• Excellent interpersonal, oral and written communication skills appropriate for interacting effectively with team members, collaborators and colleagues across the Faculty.
• A demonstrated ability to successfully supervise research students.
• Ability and capacity to implement required UNSW health and safety policies and procedures.

Pre-Employment checks required for this position
• Verification of Qualifications
• Criminal History Check
• Identification Check

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