**POSITION DESCRIPTION**

**Research Associate in Nanotechnology**

Position Level | A  
Faculty/Division | Engineering  
Position Number | 00088282  
Original document creation | 26/09/2023

**Position Summary**

The Graduate School of Biomedical Engineering at UNSW Sydney is internationally recognised for its world class research including applying the latest developments in nanotechnology to medicine. The UNSW RNA Institute is aligned with this goal through innovations in RNA science, engineering, and medicine.

The **Research Associate (Level A)** will contribute to research within the School and Institute through a collaborative project developing an AI-assisted high-throughput *in vitro* screening platform to study nanomaterial-mediated RNA delivery.

The position is part of a dynamic research team of academic staff and research students. The **Research Associate** reports to Associate Professor Megan Lord and has no direct reports.

**Accountabilities**

Specific accountabilities for this role include:

- Contribute independently and/or as a team member in collaborative research to quantitatively analyse and predict RNA loaded nanomaterial interactions with cells.
- Analyse and interpret research data and communicate findings to the research team.
- Contribute to the preparation of peer-reviewed publications and grant applications.
- Contribute to the preparation of reports for research collaborators.
- Assist with the coordination of the team’s research activities.
- Regularly liaise with the supervisor and other key stakeholders in the team, School, and collaborators.
- Assist in the development and maintenance of workplace health and safety (WHS) records, registers, and research team training within area of expertise.
- Attend research team meetings and relevant School meetings.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of 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 in biomaterials or nanotechnology, or a closely related field.

• Expertise in mammalian cell culture, mammalian cell transfection, light microscopy, and analysis of nanomaterial-cell interactions.

• Experience with quantitative biomedical image analysis.

• Demonstrated ability to conduct research with limited supervision.

• Track record of peer-reviewed publications and conference presentations.

• Demonstrated ability to work collaboratively and productively within a team and build effective professional relationships with academics, professional staff, students, and industry.

• Excellent interpersonal, organisational and communication skills and the ability to interact with academics, research students, professional staff, and industry.

• 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.