



2026 Youth Overseas Internship Program Internship Position Description Form

Part A. Organization Information

(To be completed once per organization)

1. Organization Name:

The University of NSW

2. Organization Overview:

The University of New South Wales (UNSW Sydney) is a leading Australian research-intensive university whose mission is to generate and share knowledge for the benefit of society, guided by its “Progress for All” strategy. Its core activities span education, research, and engagement across disciplines such as science, engineering, business, law, medicine, and the arts. As a member of the Group of Eight, UNSW focuses on research that drives real-world impact in areas like health, sustainability, technology, and social policy. The university emphasizes collaboration with industry, government, and communities to translate innovation into positive global change.

3. Type of Organization: Private Company NGO Public Sector
 Research Institute Other: _____

4. Industry / Field:

- Manufacturing
- Transportation and storage
- Accommodation and food service activities
- Information and communication
- Financial and insurance activities
- Professional, scientific and technical activities
- Administrative and support service activities





- Public administration and defense; compulsory social security
- Education
- Human health and social work activities
- Arts, entertainment and recreation
- Other service activities

5. Website / Social Media:

<https://www.unsw.edu.au/engineering/ourschools/biomedical-engineering>

6. Address / Location:

High Street, Kensington NSW 2052, Australia

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Part B. Internship Position Information

(Please complete one section per internship position.

If offering multiple positions, please duplicate this section as needed.)

1. Internship Title & Vacancies

- **Official Internship Title:** Microelectronic implants for applications in medicine and brain-machine interfaces
- **Number of Openings:** 1

2. Internship Details

- **Duration (Start Date – End Date):** 2026/7/1-9/30
- **Working Hours per Week:** 35
- **Type of Internship:** Project-based Rotational Research Administrative Other: _____

3. Key Responsibilities

- Working with the engineering team to design and develop embedded electronics for implantable circuits.
- Assist with the design and testing of custom integrated circuits for biomedical applications.
- Documenting design and testing outcomes, and communicating with key stakeholders, which may include external industry project partners.
- Comply with UNSW Code of Conduct, including health and safety policies and intellectual property policies.

4. Learning Objectives & Expected Outcomes

This placement will involve applications of electrical and/or biomedical engineering skills toward the development and testing of implantable medical devices. The successful applicant will gain hands-on experience in working with world-class biomedical implantable devices being developed at UNSW, including brain-machine interfaces. Beyond development and gaining technical abilities and experiences, there will also be ample opportunity to





work in a multidisciplinary team, which includes external industry partners, both in Australia and in the USA.

5. Supervisor/Mentor Information

- **Name / Title:** David Tsai

6. Qualifications & Requirements

- **Required Skills / Languages:** English
- **Required Academic Background:** A degree in electrical engineering, computer engineering, or a related discipline or an equivalent level of knowledge gained through any other combination of education, knowledge and/or experience.
- **Preferred Skills / Experience:**
Demonstrated experience and/or understanding of:
 - I. Circuit design, simulation, synthesis and implementation using Verilog.
 - II. PCB hardware interfacing using FPGAs.
 - III. Programming in C and Python.
 - IV. Linux, Git and GNU development toolchains (e.g. Make and GCC).
 - V. Software design and development processes.
 - VI. Ability to work independently, adapt and prioritize work to meet agreed project targets.
 - VII. Excellent verbal and written communication skills, including experience with working in a multidisciplinary team.

7. Compensation & Benefits

- **Salary / Allowance:** Unpaid
- **Accommodation / Transportation / Meals Provided:** N/A

