Embedding Collaboration in PhD Programs: A UNSW Approach

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UNSW Strategy

Academic Excellence

Social Engagement

Global Impact
International Research Collaboration at UNSW

- 40,000+ publications
- 5530 collaborating institutions
- 153 countries
Domestic & International HDR enrolments 2008-2018

![Bar chart showing domestic and international HDR enrolments from 2008 to 2018. The chart displays the number of enrolments for each year, with a significant decrease in domestic enrolments and an increase in international enrolments over the period.]
PhD programs: why internationalise?

- 35% international candidates from over 100 countries
- Gain access to shared knowledge, research infrastructure, data
- Develop capability to work in different research cultures
- Complex problems need cross border solutions
- Develop attributes needed to be a global researcher
International PhD collaboration at UNSW

- Research Practicum
- Joint Supervision of PhD Candidate
- Joint PhD Program
- Joint Venture with Industry
Through its higher degree research (HDR) programs, UNSW aspires to prepare research leaders who are globally focussed and socially engaged.
UNSW learning outcomes for HDR are grouped under each of four domains:

1. Research excellence
   a. Ability to design and implement an original investigation that addresses a significant problem and/or puts forward a significant proposition to advance the knowledge base of a discipline or a cross-disciplinary field
   b. Demonstrate a thorough understanding and application of research principles, ethics and integrity, and methods appropriate to a discipline or a cross-disciplinary field
   c. Ability to synthesise complex concepts and express in a logical, articulate form

2. Academic Excellence
   a. Demonstrate a thorough understanding and application of academic integrity
   b. Demonstrate a scholarly approach to knowledge generation and an authoritative command of knowledge in a discipline or a cross-disciplinary field
   c. Capacity to critically evaluate and synthesise existing theoretical knowledge, ideas and practice within the relevant field and generate original knowledge
   d. Communicate knowledge for the education of others, which may include teaching and undergraduate supervision

3. Leadership
   a. Lead and perform research in a timely manner within a discipline or a cross-disciplinary field
   b. Communicate in a manner appropriate to the discipline and disseminate research outcomes to the wider research, business and/or government community
   c. Work independently as well as collaboratively within different teams and contexts

4. Global Impact
   a. Demonstrate a deep understanding of the global body of knowledge of a discipline or a cross-disciplinary field
   b. Communicate research outcomes to the global research community
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UNSW SCIENTIA PhD SCHOLARSHIPS
WHERE WORLD-CLASS RESEARCH GETS WORLD-CLASS SUPPORT
UNSW Scientia PhD Scholarship Scheme

**PhD SCHOLARSHIPS**

**WORK ON**
High quality research projects
with the best supervisory teams in world class environments

**STIPEND**
40K per year
for four years

**TUITION**
Fees covered
for the full four years period

**PERSONAL DEVELOPMENT**
Coaching and mentoring
will form a critical part of your highly personalised leadership development plan

**CAREER DEVELOPMENT**
Up to $10k each year
for you to build your career and support your international research collaborations

**INDIGENOUS RESEARCHERS**
At least five scholarships
will be reserved for indigenous research candidates
## Foundations of the Scientia PhD program

<table>
<thead>
<tr>
<th>Excellence</th>
<th>Research Area</th>
<th>Global Impact &amp; Social Engagement</th>
<th>Career &amp; Professional Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Candidates have demonstrated their capability to carry out high quality research.</td>
<td>Research projects are in areas of research strength and align with the goals of the UNSW 2025 Strategy.</td>
<td>Candidates must demonstrate a strong commitment to making a difference in the world by contributing to UNSW’s strategy</td>
<td>Key career &amp; professional development activities &amp; opportunities aligned with focus areas of the <em>UNSW Extend your Career framework</em></td>
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Structuring Career & Professional Development

**Career and Professional Development activities**
- Key career and professional development activities on different focus areas in the *HDR Extend your Career Framework.*

**Career and Professional Development Plan**
- Annual personalised plan to help assess your current needs and plan for development opportunities to enhance skills.

**Career Mentor Supervisor**
- Key member of the supervisory team. Provides career guidance and support throughout candidature. Helps with the career development plan.

**Career and Professional Development allowance**
- Support package of up to $10,000 p.a. to help candidates fund activities & opportunities aligned with career development plan.
HDR Extend Your Career

A resource to navigate your higher degree by research (HDR) candidature at UNSW and career options beyond

SELECT YOUR STAGE

STAGE 1
Getting Started

STAGE 2
Maintaining Momentum

STAGE 3
Completion

https://hdrextend.unsw.edu.au/
## Research, Career and Professional Skills

<table>
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<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Your Candidature</strong></td>
<td>Your research proposal, confirmation and progress reviews, developing a thesis plan, writing your thesis</td>
</tr>
<tr>
<td><strong>Research Project &amp; Skills</strong></td>
<td>Developing technical skills, managing a project, responsible research practice, research methods, funding and budgeting</td>
</tr>
<tr>
<td><strong>Leading &amp; Working with others</strong></td>
<td>Supervisor &amp; candidate expectations, working in teams, collaborating and networking, developing leadership skills</td>
</tr>
<tr>
<td><strong>Publishing &amp; Profile Building</strong></td>
<td>Publishing and presenting your research, establishing a profile, making an impact</td>
</tr>
<tr>
<td><strong>Learning &amp; Teaching</strong></td>
<td>Teaching and learning in Higher Education, becoming an effective educator, building a teaching profile</td>
</tr>
<tr>
<td><strong>Engaging &amp; Knowledge Exchange</strong></td>
<td>Bridging the gap between research and industry, intellectual property, translating your research, building collaborations</td>
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</tbody>
</table>
Scientia internationalisation: Early outcomes

- 40% attended international conference
- 30% participated international workshop
- 20% attended international summer school
- 10% visiting research positions
Tracking the benefits of collaboration

Continue to track our Scientia PhD cohort to try to determine the longer term benefits

Developing researchers with a global outlook, who can realise opportunities of international collaboration

Development of graduate attributes across all domains, not just for ‘global impact’
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Thank you!