2 Research and Research Training

A world-class university is recognisable by its research-intensive culture, its ability to engage actively in the international processes of learning and discovery and its partnerships with the wider community that assists the economic, social and cultural development of the nation through the uptake of its research outcomes.

As part of its strategy for achieving international excellence, the University is committed to becoming one of the world’s top 50 Universities by 2050 and a top 100 University by 2013. The Academic Ranking of World Universities compiled by the Shanghai Jiao Tong University describes research performance using a commonly understood set of parameters:

- Alumni winning Nobel Prizes and Fields Medals (10%)
- Staff winning Nobel Prizes and Fields Medals (10%)
- Highly-cited researchers in 21 broad subject categories (20%)
- Articles published in *Nature* and *Science*
- Articles appearing in the ISI Science Citation Index and Social Sciences Citation Index (20%)
- Size adjusted institutional performance (10%)

It stands to reason that focussed attention needs to be given to each of these parameters if the University aspires to improve its world ranking. In 2008, UWA was ranked 127th in the world.

For the years 2009-2013 priority attention will be directed as follows:

**Strategic Objective:** To improve the quality and impact, and productivity of research and research training

**Executive Responsibility:** Deputy Vice-Chancellor (Research and Innovation)
Performance Indicators
RRT1.1 Total research income
RRT1.2 Australian Competitive Grants
RRT1.3 International research income
RRT1.4 Research contract income
RRT1.5 Research income per academic teaching and research, and research only staff.
RRT1.6 Research income from ARC Centres of Excellence and NHMRC Program grants

RRT2.1 Number of articles published in ISI indexed journals.
RRT2.2 Number of articles published in Nature and Science
RRT2.3 Total annual citations generated by UWA articles in ISI indexed journals.
RRT2.4 Number of IP disclosures
RRT2.5 Amount of licensing, option and assignment income

RRT3.1 HDR student load, including international students
RRT3.2 HDR completions and completion rates (% HDR completions per separation)
RRT3.3 DEEWR time-limit load as a proportion of the domestic HDR Load (i.e. RTS Load / (RTS Load + Time-Limit Load)).
RRT3.4 Student satisfaction measured by PREQ, student exit surveys and OSCAR
RRT3.5 Number of HDR students authoring ISI indexed journals and monographs

Operational Objective
RRT1: To enhance the University’s research capacity.

Implementation Strategies.
(a) Build closer relations with industry, including international corporations, to encourage sponsorship of research through ARC Linkage-Project grants, NHMRC Partnership grants and research contracts.
(b) Build closer research partnerships with universities and research institutes which are ranked highly on the Jiao Tong world ranking.
(c) Continue to support Nobel Laureates and Fields Medallists, but also prosper support and links with future winners.
(d) Incorporate UWA research activities within the World-wide Universities Network (WUN) research initiatives.
(e) Create effective participation in the European Molecular Biology Laboratory (EMBL) in both Europe and Australia.
(f) Position research groups to win major ARC Centres of Excellence and NHMRC Program grants.
(g) Mentor early career researchers and postdoctoral research fellows in developing their track record and winning external research grants.
## Operational Objective
**RRT2:** To improve the impact of research outcomes

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<th>Implementation Strategies</th>
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<td>(a) Develop and implement a proactive staff recruitment strategy, particularly targeting highly cited researchers (HiCIs).</td>
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<td>(b) Continue the Vice-Chancellor's HiCi recognition program.</td>
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<td>(c) Continue the Vice-Chancellor's awards for articles published in <em>Nature</em> and <em>Science</em>.</td>
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<td>(d) Continue to publicise and encourage research publication in ISI indexed journals.</td>
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<td>(e) Increase IP disclosures through increased awareness of the role of the Commercialisation Managers.</td>
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<td>(f) Promote research concentration in the Strategic Research Outcome areas of the revised Academic Profile.</td>
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## Operational Objective
**RRT3:** To improve the quality of HDR programmes and theses.

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<td>(a) Improve the recruitment of HDR students with a view to increasing the number, quality and diversity of students admitted to degree programs.</td>
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<td>(b) Increase the number of international HDR students winning scholarships from foreign governments and international agencies.</td>
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<td>(c) Improve the monitoring of HDR student progress with a view to improving the proportion completing within one year of the DEEWR time-limit.</td>
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<td>(d) Develop programs to enhance the quality of research supervision, with particular emphasis on disseminating good practice and supporting academic staff who are new to supervising HDR students.</td>
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