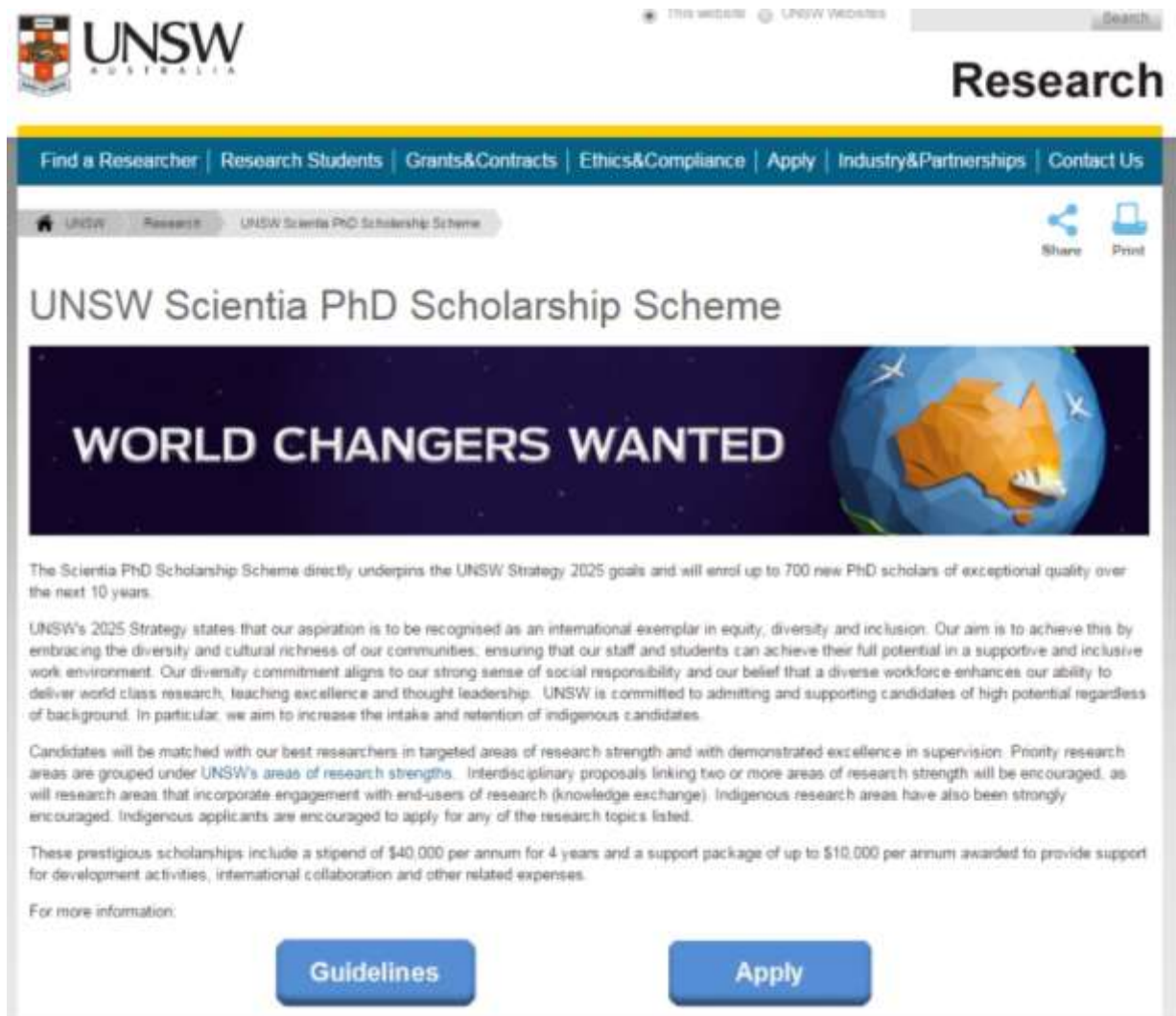


Visit the following website address:

<https://research.unsw.edu.au/unsw-scientia-phd-scholarship-scheme>

you'll see the following page on your computer screen:



The screenshot shows the UNSW website header with the UNSW Australia logo on the left and the word "Research" on the right. Below the header is a navigation bar with links: "Find a Researcher", "Research Students", "Grants&Contracts", "Ethics&Compliance", "Apply", "Industry&Partnerships", and "Contact Us". The main content area has a breadcrumb trail: "UNSW > Research > UNSW Scientia PhD Scholarship Scheme". There are "Share" and "Print" icons on the right. The main heading is "UNSW Scientia PhD Scholarship Scheme". Below this is a banner image with a globe and the text "WORLD CHANGERS WANTED". The text below the banner reads: "The Scientia PhD Scholarship Scheme directly underpins the UNSW Strategy 2025 goals and will enrol up to 700 new PhD scholars of exceptional quality over the next 10 years." It then describes UNSW's 2025 Strategy goals and the scheme's focus on diversity and inclusion. It lists priority research areas: targeted areas of research strength, interdisciplinary proposals, and engagement with end-users. It also mentions that indigenous applicants are encouraged to apply. The stipend and support package are detailed as \$40,000 per annum for 4 years and a support package of up to \$10,000 per annum. At the bottom, there are two blue buttons: "Guidelines" and "Apply".

Click on "Apply", you'll see the following page:



Click on “Apply Now”, you’ll see the following:

From the President and Vice-Chancellor

Welcome – I am delighted to introduce you to UNSW - Australia's Global University.

In 2015, UNSW Australia entered into a wide-ranging consultation with staff, our students, alumni and partners to capture ideas and aspirations for our 10 year strategy. The response was exciting and gratifying, with lively discussion and debate, as well as the submission of many thousands of ideas and comments.

All of these aspirations were captured in the [UNSW 2025 Strategy](#) which sets out an innovative, ambitious and strategic agenda, reflecting a conviction across our University to achieve great things during the next decade.

People are at the heart of this strategy.

UNSW is already at the cutting edge of academia with a strong and growing international reputation. A global leader in discovery, innovation, impact, education and thought leadership, can make an enormous difference to the lives of people in Australia and around the world.

The announcement of our largest-ever academic recruitment initiative is a key step in augmenting our existing world-leading research capabilities.

Over the coming years, we are seeking up to 1000 world leading researchers and PhD scholars across all faculties and all levels of the university. This will include:

Apply Now
Register your interest

1 Select the type of role

UNSW Scientia PhD Scholarship

UNSW Scientia Fellowship

Click on “UNSW Scientia PhD Scholarship”, and then in the box of “Select a strategic area”, choose “Nex Generation Materials and Technologies”

Then select “Design & Manufacture of Hip Joint Prostheses Matching Homan Bone Properties”, which will bring you to the project description as listed below:

Detailed description and contact information

Hip joint replacement surgeries are one of the most significant prosthesis operations worldwide. Titanium-based alloys and their composites have been a key class of materials in making prostheses due to their good biocompatibility as well as their high corrosion resistance, strength and toughness. However, there are significant property matching challenges between prostheses and human bones, causing stress-shielding, implant loosening and in turn premature failure. The aim of this research project is to develop a new process for the design and manufacture of hip joint prostheses which could closely match human bone properties but have a long in-vivo life.

Please contact the [primary supervisor](#) to discuss the scholarship opportunity for this research topic.

At the end of the description above, click the link “primary supervisor” to contact Scientia Professor Liangchi Zhang. In this email, you need to make the following clear to him:

- Purpose of the contact (to apply for the Scientia Research Scholarship, of course)
- Statement of your strength (university ranking, your own relative position/rank in the cohort of your peers in your year of study, your research/work experience and outcome, etc.)
- Full CV should be attached

The deadline for you to complete the above is **11 November 2016**.