

UNSW Scientia PhD Scholarship on "Global Production Networks and their Planetary Boundaries"

A Scientia PhD Scholarship is available from UNSW. Applications are open now.

PROJECT DESCRIPTION

Rapid development in information technologies and expanding supply chains have globalised production and increased the complexity of production networks. Keeping abreast of this global production dynamism is critical for countries future economic development, though it has the potential to over-exploit non-renewable resources and cause environmental degradation; in the process going beyond Earth's carrying capacity. International research evidences that current patterns of consumption and production have transgressed several planetary boundaries, and that for transformative changes towards sustainability we need to better quantify and predict environmental footprints of manufacturing industries and map pathways to remain within planetary boundaries; this project sets to do that.

IDEAL CANDIDATE

The candidate should have a background in production systems or industrial/sustainable engineering with a strong understanding in environmental impact assessment and systems thinking. The candidate should have a sound technical ability and experience working with quantitative data as evidenced by their prior work. Excellent data management, numerical simulation modelling skills are essential. The candidate would ideally have some prior experience in the development or application of quantitative sustainability assessment methods, database management and visualisation. The candidate should have an emerging track record of academic publications in the field. The candidate should have excellent written and oral communication skills, an ability to manage research projects, and possess or show willingness to develop good working relationships with researchers in the field. On-time delivery of project tasks, reporting and other deliverables of research, as well as proficiency in English, are essential.

UNSW SCIENTIA PHD SCHOLARSHIPS

The UNSW Scientia PhD Scholarship Scheme is designed to solve complex problems and improve the lives of people in local and global communities. Scientia candidates will have a strong commitment to making a difference in the world with demonstrated potential for contributing to the social engagement and/or global impact pillars of the UNSW 2025 Strategy.

The scholarship offers a stipend of \$41,209 per year for four years (2019 rate, indexed) and all tuition fees are covered for the full four-year candidature.

Expressions of Interest are now open. Apply by 12 July 2019.
Applications can be submitted here:

<https://www.scientia.unsw.edu.au/scientia-phd-scholarships/global-production-networks-and-their-planetary-boundaries>