



Trailblazer
Recycling &
Clean Energy

TRaCE HDR Program

A collaborative partnership between



UNSW
SYDNEY



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

Supported by the Australian Government

The Trailblazer for Recycling and Clean Energy (TRaCE) Higher Degree by Research (HDR) Program is designed to promote collaboration between universities and industry, increasing sovereign capability to support and fast track commercialisation and deliver the critical skills needed to propel clean energy industries into the future.

Through co-designed research projects and hands-on experience, TRaCE will empower a new generation of researchers to investigate and address industry challenges, with their innovative solutions benefiting the environment, our economy and communities.

TRaCE HDR Projects

TRaCE HDR projects will deliver tangible outcomes in collaboration with our partners, making industries more sustainable and economically efficient.

TRaCE targets four complementary research themes to shift toward renewable energy sources, cost-effective and efficient alternatives to fossil-fuel based products as well as recycling and re-use of waste materials.

Eligibility

Eligible projects will:

- Align with the TRaCE research themes
- Have an actively involved Industry partner
- Meet the requirements of a PhD or Research Masters project



Next Generation Solar PV and Systems

New projects that accelerate integration and scale of solar technologies.



Electrification, Energy Systems and Storage

New projects that drive manufacturing in industry electrification, clean energy systems and storage.



Sustainable Fuels and Chemicals Manufacturing

New projects that commercialise green fuels and chemicals.



Recycling, Reforming and Reuse of Materials

New projects for recycling, reforming and reuse of waste materials.



Benefits for

Students

- A stipend top up of up-to \$10k p.a.
- Up-to \$4k p.a. additional TRaCE Professional Development Support funding to tailor your HDR experience in line with your research and career goals
- Knowledge and expertise through exposure to a team of multidisciplinary researchers and industry professionals
- Tailored training through the Doctoral Training Centres to promote professional skills development, including sector and industry relevant workshops, seminars/short courses and industry site tours. Candidates may also choose to be further supported through the University Industry Engaged PhD Pathway
- Valuable industry engagement opportunities, including conferences and engagement with peak industry bodies and other relevant associations
- Delivered in partnership with UNSW, the TRaCE program will allow you to access services networks and engagement opportunities across both universities

Industry

- Access to a team of highly skilled, multidisciplinary University researchers to develop emerging technologies and deliver impactful research
- Training of potential high value future employees, producing industry leaders of tomorrow
- Networking opportunities with TRaCE partners, driving business development and commercialisation
- Utilisation of University facilities, including a suite of new, state-of-the-art industrial research infrastructure through the TRaCE program

About TRaCE

TRaCE, delivered in partnership between the University of Newcastle and UNSW, is a Commonwealth Government supported program to boost prioritised research in recycling and clean energy, and drive commercialisation outcomes with industry partners.

The commercialisation of recycling and clean energy research aims to position Australia as a world leader in the use and export of recycling technology and materials and support the domestic production of price competitive clean energy using low emissions, scalable technologies.

Apply now

The University of Newcastle is now accepting applications for TRaCE HDR projects.

University of Newcastle applications should be completed by the Chief Investigator and emailed to trace@newcastle.edu.au

For detailed program guidelines and application documents, please visit newcastle.edu.au/trace-hdr

Contact us

For more information about the TRaCE HDR program, contact the TRaCE team at trace@newcastle.edu.au

TRaCE is supported by the Australian Government Department of Education through the Trailblazer Universities Program.