

DOCTORAL TRAINING CENTRES

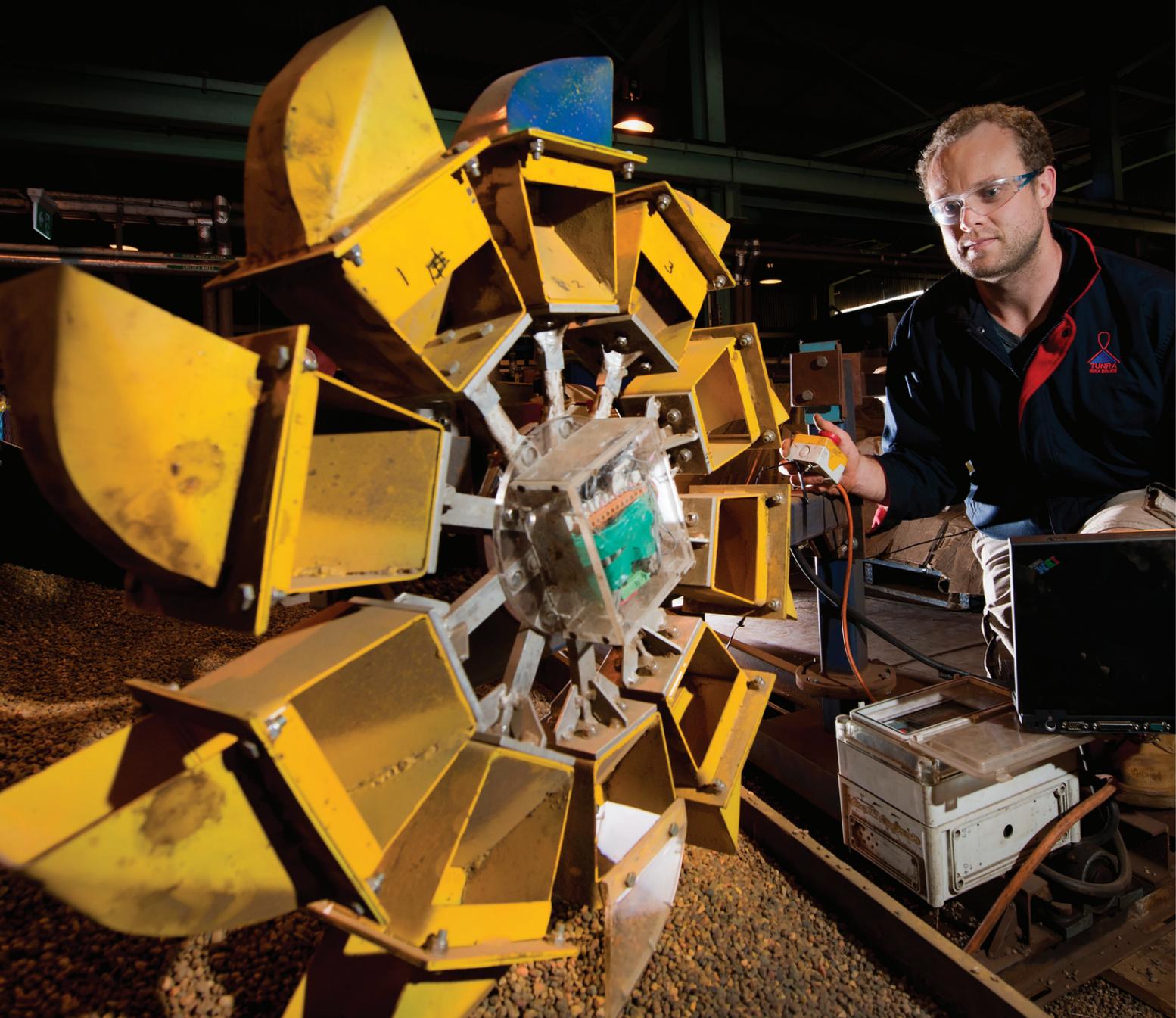


THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

nier
CELEBRATING 10 YEARS

NEWCASTLE.EDU.AU/DTC-NIER

Inspiring the next generation of industry leaders with new ideas, new ways of working and smarter solutions to industry challenges.



The Doctoral Training Centres (DTCs) of the University of Newcastle bring students, academics and industry together to create new knowledge and drive better solutions across a variety of globally important sectors.

Under the DTCs, research collaborators work to solve global resource challenges by experimenting with new technologies, teaching and learning approaches, policy concepts, cultural ideas, and commercial innovations.

PhD candidates work on research projects developed in collaboration with industry partners and are supported by a multi-disciplinary, solutions focused academic team to enhance knowledge, outcomes and skillsets.

Industry placement gives the candidate business connection and know-how, while the link to the academic expertise and resources of the University can unlock novel ideas and innovative solutions to bring competitive advantage for the industry partner.

ADVANTAGES FOR CANDIDATES

The DTC provides candidates with:

- Transferable and industry-ready skills, making them highly employable graduates
- Valuable industry engagement
- Knowledge and expertise through exposure to a team of multidisciplinary researchers, providing pathways into multiple industries
- A support network and tailored workshops to promote skills development throughout their PhD
- A potential pathway into an industry job placement

“Being a DTC student connected with industry gives me a better understanding of the real life challenges experienced on site. I have a closer student network and enhanced possibilities of employment after graduation.”

– Priscilla Freire, DTC candidate

ADVANTAGES FOR INDUSTRY PARTNERS

Industry Partners of the DTC enjoy the following benefits:

- Access to the University's academic excellence to find solutions to real industry problems
- Opportunities to drive business development and commercialisation and to impact local, regional and international communities
- Utilisation of University facilities, including the NIER Precinct, and research capabilities that would otherwise be inaccessible
- An established platform to support research projects relevant to business operations
- An associated network/hub to facilitate meaningful connections between industry and researchers

The Newcastle Institute for Energy and Resources (NIER) operates two DTCs:

FOOD AND AGRIBUSINESS

Researching solutions to the challenges and opportunities that will shape the food and agribusiness industry in the coming years. Research projects are focused across four key areas:

- Product science
- Climate resilience and sustainability
- Advanced technology
- Market access

ADVANCED METS

Supporting innovation, optimisation, efficiency, productivity and sustainability in the Mining Equipment, Technology and Services sector. To improve enterprise across the minerals value chain, research projects investigate:

- The application of new technologies
- Resource strategies
- Sensor systems
- Automation



The DTCs outlined in this brochure are administered by NIER. NIER conducts transformational research to support economic growth and environmental sustainability in the delivery of Next Generation Resources.

Next Generation Resources incorporates all resources of a finite nature, recognising the interdependencies across the water, energy, food and minerals sectors, which form the core of sustainable economic and environmental development.

Clear pathways through the DTCs make it easier for businesses, industry and community to connect and collaborate with the university.

Get in touch today to find out more.

FOR FURTHER INFORMATION:

Please email DTC-NIER@newcastle.edu.au

or visit <https://www.newcastle.edu.au/dtc-nier>

“Being involved in the DTC allows us to utilise the extensive set of multi-disciplinary skills in the University to steer and facilitate research relevant to our company.”

– Industry Partner



DTC | Doctoral
Training
Centres