We would be delighted to hear about your research needs, for more information please contact:

Research and Development
Newcastle University International Singapore
180 Ang Mo Kio Avenue 8
Block P, Level 2, Unit 220 (Room PJ208)
Singapore 569830

E-mail: NUIS-Research@ncl.ac.uk
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The University of Newcastle upon Tyne trading as Newcastle University.
Globally ambitious Purposefully excellent Regionally relevant

Newcastle University (UK)

Newcastle University is a leading British University with an enviable track record for the quality of its teaching and research. It is a member of the distinguished Russell Group of the UK’s top 24 research-intensive universities acclaimed for their multidisciplinary teaching excellence and global research contribution.

Newcastle’s vision is of a world-class civic university with a global reputation for academic excellence. The primary feature of a civic university is its sense of purpose – an understanding of not just what it is good at, but also what it is good for.

Newcastle sees itself as delivering benefits to individuals, organisations and to society as a whole. This means we are putting academic knowledge, creativity and expertise to work to deliver innovations and solutions that make a real difference.

At Newcastle University, our combination of academic excellence coupled with local presence and understanding means we are well placed to provide regionally relevant solutions to some of the most pressing issues facing the world today.

Newcastle University International Singapore (NUIS)

Formed in 2009, Newcastle University International Singapore is well established in Singapore as a major degree provider working with the Singapore Institute of Technology (SIT). Located on the Ngee Ann and Nanyang Polytechnic campuses, NUIS has access to excellent facilities.

Today, there are more than 600 Newcastle University students in Singapore, studying across seven degree programmes ranging from Marine, Offshore, Mechanical, Electrical and Chemical Engineering to Naval Architecture and Food and Human Nutrition. NUIS has a strong, multidisciplinary base of over 35 permanent research-active academics supported by a team of business support staff.

Research at NUIS in Singapore is driven by our desire to match our academic excellence with the needs of industry, with projects funded through a combination of grants and consultancy. We also offer a range of postgraduate, industry-based research degrees, delivering exceptional research projects at the same time as upskilling staff.
Research in Singapore

NUIS is an established provider of top-quality research in Singapore, underpinned by Newcastle University’s global reputation for research excellence. We are actively seeking to engage industry partners and high-quality research degree candidates in Singapore and South East Asia. Our areas of expertise are broad and cover:

- Food and human nutrition
- Chemical engineering and advanced materials
- Marine engineering
- Naval architecture
- Offshore engineering
- Mechanical and systems design
- Electrical and power engineering
- Civil engineering
- Computing and advanced analytics

We specialise in matching the requirements of industry with the research expertise of our staff and postgraduate research students, giving you access to a unique blend of academic excellence with real-world relevance, backed by the global reputation of Newcastle University.

Current research projects

NUIS has a well-funded and growing research programme with over $2 million worth of projects currently being undertaken. Research funding comes from a mix of local and international companies, government and independent agencies, and through collaborations with local tertiary institutes. Some examples are shown below:

- Developing high-performance lithium-ion battery power systems for long endurance deep-water operation (Temasek Polytechnic and SMD)
- Reducing the resistance of ships’ hulls by thin-film ice lubrication technology (Ngee Ann Polytechnic, AMM Ships Pte Ltd, SMI)
- Evaluating material properties of recycled aggregate concrete for structural applications (Nanyang Technological University (NTU) and Pan United Pte Ltd)
- Evaluating process intensification in early development or retrofitting existing processes for green and sustainability benefits (with A*STAR Institute of Chemical and Engineering Sciences (ICES) and NTU)
- Biomass to chemicals (joint project with ICES and NTU)
- Development of rapid and automated pathogen identity system in the environment by MALDI MSMS (with Nanyang Polytechnic, Kyoto University, National Environment Agency).
Collaborating with industry

As a research-intensive institution, fostering links with industry and local tertiary institutions are important to NUIS. Through research partnerships, we aim to develop long- and short-term research collaborations, which are of mutual interest, establish strategic collaboration focus and submit joint research proposals for research funding. Our industry contacts include:

- Singapore Technologies Marine Ltd
- Singapore Technologies Electronics Ltd
- Large-scale Systems Group (LSG)
- DOW Chemical Pacific Ltd
- DHI Water & Environment (S) Pte Ltd
- International Paint Ltd
- Hann Ocean Energy Pte Ltd
- Sembcorp, Jurong Shipyard
- Seagate Technologies

Fully funded research degrees for staff

Through its partnership with the WDA and EDB, NUIS is able to offer a range of postgraduate research scholarships to industrial partners wishing to conduct research and at the same time intensify the research skills of their staff.

Candidates study for a PhD or MPhil at NUIS whilst being fully employed and based at the company. The subject of the candidates’ research is agreed by the company and designed to deliver valuable, actionable results and know-how. The scholarships are fully funded, including a monthly stipend, meaning that employment costs are significantly reduced or removed. Research costs and fees are also covered, including consumables, access to specialist equipment and supervision by academic experts at NUIS.
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