

Academic Supervisor Profile



Dr Ian Major leads research in advanced materials and manufacturing at TUS, where he manages the Advanced Materials and Manufacturing Platform (AMMP) and is a Principal Investigator within the Applied Polymer Technologies (APT) Gateway*. He is also a Funded Investigator in the Research Ireland AMBER Centre. His research focuses on developing cost-effective and sustainable manufacturing solutions for complex products, alongside high-performance materials designed for extreme environments.



With a strong track record in research funding, Dr. Major's work supports a wide range of industrial sectors including energy, construction, healthcare, marine, automotive, and aerospace. His interdisciplinary research spans polymer engineering, composites manufacturing, hybrid and additive manufacturing, and advanced material innovation. A recurring theme across his projects is affordability—ensuring that advanced technologies are accessible and scalable for societal benefit.

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Current Research Interests

- Sustainable polymers and composites for construction and energy applications
- Hybrid manufacturing: integrating additive manufacturing and traditional processes
- Advanced insulation materials for energy-efficient and sustainable buildings
- High-performance materials for extreme environments
- Biobased materials for industry

Green Deal Policy Pillars

- Clean energy
- Sustainable industry
- Building and renovating

Relevant Industries

- Construction and retrofitting
- Energy and marine sectors
- Automotive and aerospace manufacturing

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