

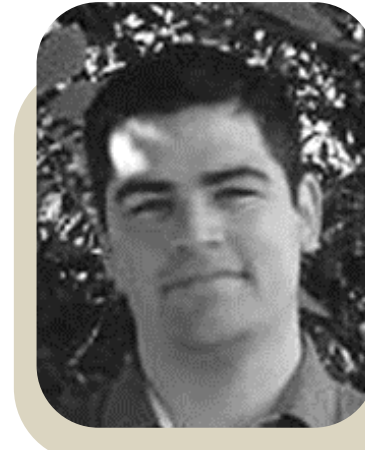
Academic Supervisor Profile



Dr Niall Colgan is a lecturer in engineering physics and a clinical medical physicist in the Technological University of the Shannon. His work within the Applied Polymer Technologies (APT) Gateway* has been applied in polymer engineering, imaging, instrumentation and mechanical design. He also works in the development of diagnostic imaging capability applied to projects related to dementia, acquired brain injury, psychosis, neurological disorders, oncology, and musculoskeletal and cardiac disease.

His primary research focus is biophysics, quality assurance and diagnostic imaging, particularly in NMR and MRI. He also has active research programs in imaging, computational modelling/simulation, QA in polymers, Microscopy, AI, data mining, clinical instrumentation and tissue mechanics. He has led research teams in preclinical imaging bio-markers and preclinical drug trials and has directed and established clinical imaging research facilities utilised in clinical research and trials. A particular interest is the development of imaging methods that will open new possibilities for the diagnosis and evaluation of therapeutic efficacy and advance manufacturing.

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Current Research Interests

- Sustainable polymers for medical applications
- Sustainable clinical research and trials
- Sustainable mechanical designing of products, systems and processes
- Development of sustainable imaging methods

Relevant Industries

- Biomedical polymers
- Diagnostic imaging devices
- Advanced therapeutics manufacturing

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