

**POSITION: POSTDOCTORAL RESEARCH FELLOW AT THE UNIVERSITY
OF AUCKLAND, NEW ZEALAND**

**Project Title: Advanced Modelling and Simulation of Closed Mould
Composite Manufacturing Processes**

Applications are invited for a postdoctoral research position on composite manufacturing processes with the Liquid Composite Moulding (LCM) Group at the University of Auckland. The successful candidate will play a major role in developing the LCM group's research into advanced composites manufacturing processes (including I/CM, Resin Infusion, VARTM, and RTMLight).

The project will involve formulating mathematical models of LCM processes, including the mechanical behaviour of fibrous materials, of elastic and flexible moulds and the fluid mechanics of resin flow through porous and non-porous media. The project also involves the development of a comprehensive software simulation of LCM processes (SimLCM).

Candidates should have a doctorate in Solid and/or Fluid Mechanics or a related discipline. Some relevant experience in software development and numerical analysis is required. Experience with LCM processes, in developing Finite Element software, and with the mathematical modelling of material behaviour would be advantageous.

The Candidate would work alongside colleagues in the LCM group. This strong research group is associated with the Centre for Advanced Composite Materials at the University of Auckland, which includes state-of-the-art research facilities.

The position is ideal for an enthusiastic candidate who would like to develop their career as a research scientist/engineer. It is also an opportunity to work and study in one of the most beautiful counties in the world.

The post is available immediately, for a term of eighteen months.

Candidates are invited to send a CV and a statement of research interest by e-mail to either Dr Bickerton or Dr Kelly, and to arrange for two recommendation letters to be sent separately by mail.

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