

Dear all

This week's digest includes:

- two PhD opportunities on model-based tools for the resilience of water resources at the ANU
- a request for Industrial Case Studies from any previously published MODSIM papers

If you would like something included in this digest, please email it to [office@mssanz.org.au](mailto:office@mssanz.org.au)

Kind regards, Karen

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### **PhD positions on model-based tools for the resilience of water resources**

We are offering two exciting opportunities for interdisciplinary researchers with skills in mathematical or computational modelling to undertake PhD programs at the Fenner School of Environment and Society at the Australian National University. The scholarships are funded by an ARC Future Fellowship awarded to Dr Steven Lade on "Advancing resilience theory and practice for water resource management". The project aims to develop model-based tools for the resilience of water and other natural resources. The students will work with researchers from across ANU at the Institute for Water Futures, a global network of resilience researchers, and industry and/or government actors depending on the course of the project. For more information and to apply see link below.

Initial deadline is 1 October 2021.

<https://fennerschool.anu.edu.au/news-events/news/phd-opportunities-developing-model-based-tools-resilience-water-resources>

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### **Industrial Case Studies from MODSIM (for undergraduates)**

I'm teaching a third-year subject on "industrial mathematics". The students have some background in ODEs and a basic knowledge of PDEs (up to separation of variables). Obviously, the vast majority of MODSIM papers are too advanced for this subject. But over the years I have attended a few presentations that would make suitable "industrial case studies" for this subject. If you have a suitable MODSIM paper that I could use in this subject please contact me!

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