

Monash e-Research Centre

The Monash e-Research Centre, the Faculty of Information Technology, Monash University, and the Victorian Life Sciences Computation Initiative invite you to participate in the

Computational Science Workshops 2011 for PhD Students

- **First workshop runs 7-11 February 2011:**
'Introduction to Computational Thinking'

- We'll help to transform your approach to learning and research by using 'computational thinking'.
- A hands-on tutorial style workshop to show how you can apply modern computational methods and tools to your studies..no matter what your science specialty is.
- Includes an introduction to to computational science, plus the use of available models and tools such as Systems Dynamics Modeling, Agent-Based Modeling, Mathematical Modeling and Modeling Projects.

- **Second workshop run 21-25 February 2011:**
'Computational Workshop for the Life Sciences'

- Designed for graduate students in the 'life sciences' to prepare them better for futures in research, industry and teaching.
- Some of the tools currently used by biologists include MATLAB™ and CellDesigner™: a modelling tool of biochemical networks; and parallel processing with MATLAB for handling large problems and data sets.
- Analytical and modelling concepts and tools will be introduced using pertinent examples from the field (e.g. physiology, biochemistry, cell and molecular biology, ecology, evolution, etc.).
- Participants will have significant time to apply these to their own problems.

*Registration of interest is open again - including your background and reason - (open to PhD students from Monash and Victorian universities) by 17 February email:

Rob.Gray@monash.edu

Time: 9.30am to 5.30pm

Location: EH1-1 (IT Lab.)

Bldg 60, Clayton Campus, Monash University

Visit: <http://messagelab.monash.edu.au/ComputationalThinkingForLifeSciences>