SELECTION CRITERIA

Use this form to define the selection criteria for an academic position at the University of Adelaide.

POSITION DETAILS	
School/Branch:	School of Computer and Mathematical Sciences
Classification	Level A

ESSENTIAL MINIMUM CRITERIA

1. A PhD in Applied Mathematics or a related discipline of science or engineering.
2. Demonstrated ability to undertake high quality research in mathematical modelling employing differential equations.
3. A record of scientific research achievements commensurate with career stage, including publications in international peer-reviewed journals of high quality.
4. Demonstrated experience in numerical solution of differential equations, including the development of computer programs.
5. Strong interpersonal communication and organisational skills to enable effective working both as an independent researcher and as a member of a diverse international research team.
6. Demonstrated ability to communicate clearly and effectively in English, both orally and in writing.
7. Demonstrated ability to promote the organisational values of integrity, respect, collegiality, excellence and discovery, and a commitment to positively comply with the associated behaviour expectations.

DESIRED CHARACTERISTICS

1. Experience in high quality research in continuum mechanics, in particular theoretical fluid dynamics.
2. Research experience in one or more of multiphase flow, perturbation methods, dynamical systems, finite element methods.
3. Experience with scientific computing in the Python programming language or similar.
4. Experience with mechanics involving rigid body motion.
5. Demonstrated ability to work with experimentalists to validate models.

APPROVALS – HEAD OF SCHOOL/BRANCH MANAGER

Head of School / Branch Manager

Name:……………………………………………..Signature:…………………………………………….. Date:………………………………..

ACKNOWLEDGEMENT OF INCUMBENT

I have read and understood the requirements of the position

Name:*(please print)*…………………………………………..Signature:…………………………………………….Date:………………………………..