ACADEMIC SELECTION CRITERIA

DEPARTMENT/UNIT: School of Mathematics and Statistics
FACULTY: Faculty of Science

POSITION TITLE: Research Associate

LEVEL: A, Step 6
CLASSIFICATION: Research Only

Purpose/Responsibilities: to participate in research project "A geometric theory for travelling waves in advection-reaction-diffusion models" funded by ARC

ESSENTIAL FORMAL QUALIFICATIONS:

- PhD or equivalent
- Postgraduate degree
- Honours degree
- Other (specify)

Detail: PhD in Mathematics or closely-related discipline.

ESSENTIAL SKILLS/TECHNIQUES:

- Computational Mathematics and Dynamical Systems Theory
- Demonstrated ability to conduct research/scholarly activities under limited supervision either independently or as a member of a team
- Good organisational and administrative skills with attention to detail.
- Good written and verbal communication skills.

ESSENTIAL EXPERIENCE:

- Expertise in the numerical analysis of hyperbolic/parabolic partial differential equation systems
- Published research as sole author or in collaboration
- Experience in research record keeping, preparation of research papers and seminars.

ESSENTIAL OTHER:

- Knowledge of OHS (Occupational Health and Safety) principles
- Knowledge of EEO (Equal Opportunity) principles

DESIRABLE:

- Expertise in population dynamics and pattern formation
- Knowledge in modelling tactically driven cell movement