



Position Title:	Research Associate / Research Fellow
Position Classification:	Level A or B
Position Number:	NEW
Faculty/Office:	Engineering and Mathematical Sciences
School/Division:	Mathematics and Statistics
Centre/Section:	
Supervisor Title:	Professor
Supervisor Position Number:	

Your work area

The University of Western Australia (UWA) is ranked amongst the top 100 universities in the world and a member of the prestigious Australian Group of Eight research-intensive universities. With an enviable research track record, vibrant campus and working environments, supported by the freedom to 'innovate and inspire' there is no better time to join Western Australia's top University. You will be working in the Centre for the Mathematics of Symmetry and Computation (www.cmsc.uwa.edu.au) within the School of Mathematics and Statistics.

Reporting Structure

Reports to : Professor

Your role

The appointee will conduct research, on the UWA main campus in Crawley, Perth, in the Centre for the Mathematics of Symmetry and Computation. Your research is funded by an ARC Discovery grant with chief investigators Emeritus Prof. Cheryl E. Praeger AM FAA, and Dr Stephen Glasby. The grant focusses on using symmetry to gain insight into finite geometries and analysing densities of certain matrices in matrix groups (symplectic, unitary, orthogonal).

You will also assist in supervising final year undergraduate, Master and PhD students working on aspects of symmetry, combinatorics, or finite geometry. You are expected to participate in the Groups and Combinatorics seminar and the CMSC research retreat.

Key responsibilities

Work on an ARC project Finite Linearly Representable Geometries and Symmetry

Publishing high quality peer-reviewed journal papers related to the research

Producing project reports as required

Presentation of research results and conclusions in workshops and conferences

Assisted supervision of honours and postgraduate students

Actively participate in the activities of the Centre for the Mathematics of Symmetry and Computation.

Other Duties as directed

Your specific work capabilities (selection criteria)

A PhD in Mathematics

Knowledge of group theory especially matrix groups is essential, and knowledge of finite geometry and combinatorics is desirable.

Experience in writing and publishing papers in high impact journals.

The ability to establish and maintain international collaborations with leading international experts.

The desire to assist in supervising final year undergraduates, Master and PhD students working on aspects of symmetry, combinatorics or finite geometry.

Special Requirements

Nil

Compliance

Workplace Health and Safety

All supervising staff are required to undertake effective measures to ensure compliance with the Occupational Safety and Health Act 1984 and related University requirements (including Safety, Health and Wellbeing Objectives and Targets).

All staff must comply with requirements of the Occupational Safety and Health Act and all reasonable directives given in relation to health and safety at work, to ensure compliance with University and Legislative health and safety requirements.

Details of the safety obligations can be accessed at <http://www.safety.uwa.edu.au>

Equity and Diversity

All staff members are required to comply with the University's Code of Ethics and Code of Conduct and Equity and Diversity principles. Details of the University policies on these can be accessed at

at http://www.hr.uwa.edu.au/publications/code_of_ethics,
<http://www.equity.uwa.edu.au>