



Position Description

College / Division:	College of Engineering & Computer Science
School / Centre:	Research School of Computer Science
Department / Unit:	
Position Title:	Research Fellow
Classification:	Academic Level B
Position No:	
Responsible to:	School Director, Professor Alistair Rendell

PURPOSE STATEMENT:

The ANU College of Engineering and Computer Science (CECS) is one of the premier engineering and computer science research institutions in the world. It comprises the Research School of Computer Science and the Research School of Engineering. Both are recognised as research leaders in their respective areas continuing the tradition of excellence in research and research-led education.

The purpose of this appointment is to:

- Build expertise across the university in research and education relating to high performance computing as applied to computational molecular science, and
- Contribute to the objectives of an externally funded research project.

KEY ACCOUNTABILITY AREAS:

The position is associated with the High Performance Computing Research Group within the Research School of Computer Science. For an initial period the position will be partially supported by an external contract managed through the Iowa State University (ISU) with funding from the US Department of Energy (DoE). The appointee is accountable to the project lead CI, Professor Rendell.

Position Dimension & Relationships:

As an academic member of the Research School of Computer Science the appointee will be required to lead and contribute to research, education and outreach agendas of the School both nationally and internationally in a manner that is appropriate to the level of appointment. Education activities may include the preparation and delivery of tutorials, lectures, practical classes etc as well as the supervision of research, professional and administrative support staff involved in the staff member's research. In all cases the staff member is expected to contribute cooperatively to the overall intellectual life of the School, College and University.

While the externally support project persists the appointee will be required to contribute to the specific objectives of that project.

Role Statement:

In their role as an ANU academic level B in the Research School of Computer Science and at a level as agreed through the normal Statement of Expectation process the appointee will be expected to:

1. Undertake high impact independent research with a view to publishing original and innovative results in international refereed journals, present research at academic seminars and at prestigious national and international conferences, and collaborate with other researchers at a high international level.
2. Apply for competitive grant funding.
3. Contribute to the teaching activities of the School at the undergraduate and graduate levels as required and at an appropriate level.
4. Supervise students working on individual or group projects at undergraduate, honours,

graduate-coursework and research levels.

5. Contribute to all aspects of the operation of the School, College and University more broadly.
6. Actively promote high standards in all education, research and administration endeavours undertaken by the School and the College.
7. Take responsibility for their own workplace health and safety and not wilfully place at risk the health and safety of another person in the workplace.
8. Other duties as required consistent with the classification level of the position.

Additional requirements specific to this position include:

9. Activities required as part of the externally funded US DoE project in proportion to the funding provided by this project or as agreed as part of the Statement of Expectation process.

Skill Base

All academics at level B and above are expected to have a doctoral qualification in a relevant field with more specific recognized experience in a domain directly related to the appointment.

In determining experience relative to qualifications, regard shall include teaching experience, experience in research, experience outside tertiary education, creative achievement, professional contributions and/or to technical achievement.

SELECTION CRITERIA:

1. A PhD in computational science or a related field, with a track record of independent research as evidenced by highly cited publications in leading peer-reviewed journals and conferences, and by other measures such as prestigious awards, invitations to give keynote addresses at leading conferences, elite membership of professional institutes/academies etc.
2. Demonstrated expertise in high performance computing and/or knowledge of quantum chemistry algorithms design and implementation with an ability to formulate and undertake research projects related to these areas.
3. Strong programming skills in a language relevant to high performance computing with evidence of having worked with and contributed to large scale computational science application codes.
4. The ability to develop and maintain productive high quality collaborations within ANU, nationally and internationally.
5. The ability and commitment to lead and win bids for competitive external funding to support individual and collaborative research activities.
6. Evidence of effective teaching and a willingness to contribute to the educational agenda of the Research School at all levels.
7. The ability to supervise and graduate high quality PhD/Masters research students.
8. Excellent oral and written English language skills and a demonstrated ability to communicate and interact effectively with a variety of staff and students in a cross-disciplinary academic environment and to foster respectful and productive working relationships with staff, students and colleagues at all levels.
9. A demonstrated high-level understanding of equal opportunity principles and a commitment to the application of these policies in a University context.

Supervisor Signature:		Date:	
Printed Name:	Alistair Rendell	Uni ID:	U9507815

References:

[General Staff Classification Descriptors](#)

[Academic Minimum Standards](#)

Pre-Employment Work Environment Report

Please note the Pre-Employment Work Environment Report form http://info.anu.edu.au/Policies/_DHR/Forms/HR51.asp must be completed by the supervisor of the advertised position and provided electronically as a separate document, as it will be uploaded into the Recruit@ANU system and available for applicants to download when reviewing the position documentation. Without this form jobs cannot be advertised.