POSITION DESCRIPTION:

SECTION A: Position Context

<table>
<thead>
<tr>
<th>Position Title</th>
<th>Research Associate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position Number</td>
<td>29744</td>
</tr>
<tr>
<td>Classification</td>
<td>Academic Level A</td>
</tr>
<tr>
<td>School/Department/Faculty</td>
<td>Centre for Astrophysics and Supercomputing, Faculty of Information and Communication Technologies</td>
</tr>
<tr>
<td>Division</td>
<td>Higher Education Division (Hawthorn and Prahran)</td>
</tr>
<tr>
<td>Effective Date</td>
<td>January 2013</td>
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Position Purpose:

This is an ARC-funded Research Associate position to work on the project "Elucidating the physical mechanisms of environment-driven galaxy evolution" being conducted by Prof W. Couch (in collaboration with Prof K Bekki at UWA). Whilst the position will be expected to work primarily on this research project, it will be given the opportunity to spend a small fraction of the time to pursue independent research and work collaboratively with other staff within the Centre of Astrophysics and Supercomputing.

University Information:

Swinburne University of Technology is a large multi-sectoral and multi-campus institution with a stated mission to be a pre- eminent entrepreneurial university from the Asia-Pacific, thriving on new ideas and knowledge and exploiting its intersectoral heritage to create value for its stakeholders.

Swinburne has campuses in metropolitan Melbourne at Hawthorn, Wantirna, Croydon and Healesville and an overseas branch campus in Kuching, Sarawak. It also offers an increasing number of subjects and courses via the Internet. Its programs cover the education and training needs of over 40,000 students ranging from apprentices through to doctoral students.

Swinburne is proud of its close links with industry, business and the community generally. It has gained a prominent and respected name in education in Australia and overseas through:
- government funded programs and research;
- industry and business funded research;
- consultancy and training;
- fee-for-service teaching;
- an international focus for its curricula, student recruitment and operations.
CENTRE/FACULTY

The Swinburne Centre for Astrophysics and Supercomputing is part of the Faculty of Information and Communication Technologies. The Centre for Astrophysics and Supercomputing at Swinburne University is one of Australia's largest astronomy groups, with over 30 staff/postdocs and 30 PhD students from more than 20 different countries. Swinburne holds an agreement with Caltech guaranteeing it 15 nights per year on the 10m Keck telescopes. CAS operates its own GPU-rich supercomputing facility and an HD 3D "Virtual Reality" theatre. It has a lively research culture with weekly discussion groups and hosts many international speakers/visitors each year. The campus is located in the cosmopolitan and diverse inner-Melbourne suburb of Hawthorn.

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The Faculty (www.ict.swin.edu.au) has approximately 120 EFT staff, including academic, administrative and technical positions. There are approximately a further 35 EFT staff employed specifically to support research activity funded by grants. There are approximately 2,000 EFTSL enrolled across undergraduate and postgraduate programs; of that number approximately 65 EFTSL or 79 students are enrolled in postgraduate research programs. A significant number of the students enrolled in the Faculty are full-fee paying international students.

The Faculty offers a wide range of innovative and industry-relevant undergraduate and postgraduate coursework and research programs. These programs are delivered at the Hawthorn and Sarawak campuses, in Hong Kong and online. The programs encompass major academic disciplines of Astronomy and Computational Science, Computer Science and Software Engineering, Information Systems and Telecommunications and Networks.

The Faculty also hosts the following major research centres: the Centre for Advanced Internet Architectures, the Centre for Information Technology Research and the Centre for Molecular Simulation.

HIGHER EDUCATION DIVISION INFORMATION

The Higher Education Division located at Hawthorn and Prahran campuses has approximately 12,000 undergraduate and postgraduate students and over 600 academic and other staff. The relatively small size necessitates a focused approach to both course offerings and research activities. The Higher Education Division's mission is to be a research-intensive technological university characterised by:

- Research activities of national prominence and international recognition focussed around the University's chosen areas of excellence
- Students of high academic standard in a range of high quality specialist undergraduate and post-graduate coursework and research programs
- Being international in operation and perspective
- A significant level of self determination arising from a sustainable balance between revenue generating activity and prestige.

The division consists of five faculties and three research institutes. The five faculties are:

- Faculty of Business and Enterprise
- Faculty of Design
- Faculty of Engineering and Industrial Sciences
- Faculty of Information & Communication Technologies
- Faculty of Life & Social Sciences

The Division has a range of undergraduate and postgraduate coursework and research programs focussed around the themes of:

- Professional engineering
- Information technology
- Business and innovation
- Design
- Multimedia
- Health and human services

Areas of research strength include:

- Advanced computing and modelling
• Advanced industrial technologies
• Astrophysics
• Biotechnology and bioengineering
• Brain function and cognition
• Entrepreneurship
• New communication technologies
• Optics and applied laser technology
• Social sustainability and well-being

URL to Faculty web page: http://www.swin.edu.au/ict

Participation on Committees:
The appointee will attend and contribute to regular staff meetings.

Supervision Reporting Relationships:

<table>
<thead>
<tr>
<th>This positions’ supervisor/manager</th>
<th>Professor Warrick Couch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other positions reporting to this position</td>
<td>Nil</td>
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</tbody>
</table>

Location:
This position is currently located at the Hawthorn campus but the incumbent may be required to undertake duties at any of the University's campuses or offshore partner institutions. Thus the incumbent must be willing to travel between campuses and work at a range of locations.

SECTION B: Key Responsibility Areas
The key responsibility areas (KRAs) are the major outputs for which the position is responsible and are not a comprehensive statement of the position activities.

<table>
<thead>
<tr>
<th>Key Responsibility Areas</th>
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<tbody>
<tr>
<td>1. Research</td>
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<tr>
<td>• Conduct research activities and contribute to the research output of the Centre, both individually and as part of a team (particularly with Prof. Warrick Couch).</td>
</tr>
<tr>
<td>• Publish astronomical research in international refereed journals.</td>
</tr>
<tr>
<td>• From time to time, attend national and international meetings and present research results</td>
</tr>
<tr>
<td>2. Supervision</td>
</tr>
<tr>
<td>• Help supervise research students as required.</td>
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<tr>
<td>3. Builds Relationships</td>
</tr>
<tr>
<td>• Participate and contribute to the Discovery Program collaboration under which the position is funded through collaborative meetings and e-mail.</td>
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<tr>
<td>4. Grants</td>
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<td>• Contribute to competitive grants</td>
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<tr>
<td>5. OHS</td>
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<tr>
<td>• Comply with all occupational health and safety instructions, policies and procedures including departmental safety manuals</td>
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<tr>
<td>• Report hazards/incidents to manager/supervisor and take action to avoid, eliminate or minimise hazards</td>
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<tr>
<td>• Seek information or advice where necessary before carrying out new or unfamiliar work</td>
</tr>
<tr>
<td>• Be familiar with emergency and evacuation procedures and comply with instructions given by emergency response personnel</td>
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<tr>
<td>6. EEO</td>
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<tr>
<td>• Ensure compliance with University Anti Discrimination, Bullying and Violence and Sexual Harassment policies and procedures.</td>
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<tr>
<td>• Participate in the University staff performance and development process</td>
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</tbody>
</table>
SECTION C: Key Selection Criteria

Application letters and/or resumes must address the Qualifications and Knowledge/Experience/Attributes sections under the key selection criteria. Preferably applications should not exceed six (6) A4 pages in total.

Qualifications: Include all educational and training qualifications, licences, and professional registration or accreditation, criminal record checks etc. required for the position.

1. A PhD in observational extragalactic astrophysics, with specific research experience in the area of galaxy evolution and its dependence on environment.

Experience / Knowledge / Attributes: Required by the incumbent to successfully perform the position’s key responsibilities.

1. Experience in 2D IFU spectroscopy and/or large spectroscopic galaxy surveys (preferable).
2. Demonstrated ability to work productively and cooperatively with others in a team environment (Preferable)
3. Strong research skills and a demonstrated publication track record in peer-reviewed journals.
4. Excellent oral and communication skills.

Swinburne Attributes:
Our attributes inform the selection process; however, a written response to the attributes is not required. The attributes are:

- Building Organisational Capability
- Demonstrates Personal Integrity
- Manages Change Effectively
- Builds Relationships
- Drives Service Excellence
- Provides Educational Leadership
- Creates a Learning Environment
- Exhibits Entrepreneurial Skills
- Sets Direction

Further Information:
For further information, please contact Professor Warrick Couch, Distinguished Professor, Centre for Astrophysics and Supercomputing, Faculty of Information and Communication Technologies on telephone +613 9214 4712, fax +613 9819 8797, email wcouch@swin.edu.au
I accept the Position Description as stated above and that the Position Description may need amending and updating periodically due to changes in responsibilities and organisational requirements. Changes to position descriptions will be in accordance with the position classification and consistent with the purpose for which the position was established.

Incumbent: _______________________________ Date: ________________
Signature _______________________________