## POSITION DESCRIPTION:

### SECTION A: Position Context

<table>
<thead>
<tr>
<th>Position Title</th>
<th>Lecturer / Senior Lecturer in Biomedical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position Number</td>
<td>27485</td>
</tr>
<tr>
<td>Classification</td>
<td>Academic Level B / C</td>
</tr>
<tr>
<td>School/Department/Faculty</td>
<td>Faculty of Engineering and Industrial Sciences</td>
</tr>
<tr>
<td>Division</td>
<td>Higher Education</td>
</tr>
<tr>
<td>Effective Date</td>
<td>April 2009</td>
</tr>
</tbody>
</table>

### Position Summary:

The person we seek for this role will be a strongly committed teaching academic who has a strong interest in developing and undertaking teaching, project supervision and research in the field of Bioengineering. While applicants with expertise in any Bioengineering research discipline are encouraged to apply, preferences will be given to applicants who are able to deliver undergraduate course content and project supervision focusing on biomedical instrumentation, bioimaging and bioelectronics. The appointee will be a team-oriented individual and will be expected to develop research activities with industry partners and through ARC and CRC funding mechanisms. The appointment will be made at a level commensurate with experience.

### 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, Prahran, Lilydale, 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 50,000 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.

### Higher Education

The Higher Education Division located at Hawthorn, Lilydale and Prahran campuses has approximately 20,000 undergraduate and postgraduate students and over 800 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 postgraduate 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 seven academic units:

- Faculty of Business and Enterprise
- Faculty of Design
- Faculty of Engineering and Industrial Sciences
- Faculty of Information & Communication Technologies
- Faculty of Life & Social Sciences
- Higher Education Lilydale
- Swinburne Sarawak

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

**Faculty**

The Faculty of Engineering and Industrial Sciences is responsible for teaching and research in a broad range of disciplines in engineering, mathematics and industrial sciences. The total student load for the Faculty is approximately 2000 equivalent full-time students. The Faculty has 110 academic positions, 20 administrative positions and 10 technical positions. There are approximately 100 postgraduate research students.

The Faculty has the following formal research centres and Institutes: the Industrial Research Institute Swinburne (IRIS), Centre for Micro-photonics (CMP), Centre for Applied Optics & Ultra-fast Spectroscopy (CAOUS) and Centre for Sustainable Infrastructure (CSI).

The Faculty offers two undergraduate programs related to Bioengineering (namely B.Eng Biomedical Engineering, and BSc Biomedical Sciences/ B.Eng Electronics and Computer Systems Engineering). We are currently exploring opportunities for expanding both the undergraduate and postgraduate programmes in Bioengineering within the University.

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

**Participation on Committees:**

Participate in Faculty academic and research committees and others as required by the Dean, and University committees as appropriate.

**Supervision Reporting Relationships:**

<table>
<thead>
<tr>
<th>This position's supervisor/manager</th>
<th>Academic Discipline Leader</th>
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<tbody>
<tr>
<td>Other positions reporting to this position</td>
<td>As advised by the Dean</td>
</tr>
</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. 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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</table>
| 1. Educational Leadership        | • Provide ideas towards the development, implementation and delivery of high quality educational programs that meet the needs of industry and the community.  
• Maintain a personal program of teaching, scholarship and professional activities.  
• Ensure that University policies and procedures for quality assurance in teaching and learning are carried out in the Biomedical Engineering discipline.  
• Play an active role in the maintenance of academic standards and in the development of educational policy and curriculum in Biomedical Engineering.  
• Co-ordination of undergraduate coursework programs in Biomedical Engineering |
| 2. Research                      | • Promote innovation and excellence in research.  
• Maintain a personal program of research and actively seek research funding.  
• Supervise research projects of undergraduate and postgraduate students. |
| 3. Teaching                      | • Prepare and deliver lectures, tutorials and seminars.  
• Assess student work.  
• Prepare high quality teaching materials including active learning concepts such as design base learning.  
• Make a distinguished personal contribution to teaching. |
| 4. Set Directions                 | • Participate in Faculty strategic planning activities and contribute to the achievement of Faculty strategic objectives. |

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.

<table>
<thead>
<tr>
<th>Qualifications: Include all educational and training qualifications, licences, and professional registration or accreditation, criminal record checks etc. required for the position.</th>
<th>Essential/Preferable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. A PhD in engineering or a related relevant discipline.</td>
<td>Essential</td>
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<tr>
<td>2. A record of high quality research publications in relevant areas</td>
<td>Essential</td>
</tr>
<tr>
<td>3. A record of high quality teaching and curriculum development</td>
<td>Preferable</td>
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<tr>
<td>4. A record of successful supervision as principal supervisor of Masters and PhD students to completion</td>
<td>Preferable</td>
</tr>
<tr>
<td>5. Eligibility for membership of Engineers Australia</td>
<td>Preferable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Experience / Knowledge / Attributes: Required by the incumbent to successfully perform the positions key responsibilities.</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1. Involvement in collaborative applied research involving other universities, industry or government</td>
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<tr>
<td>2. A record of educational program development at both undergraduate and graduate levels</td>
<td></td>
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<tr>
<td>3. A record of obtaining industry or government linked research grants</td>
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<tr>
<td>4. Experience in industry or other applied environment</td>
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<tr>
<td>5. Involvement in relevant Engineers Australia and other professional organisations and societies is desirable</td>
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</tbody>
</table>
Swinburne Attributes:
Our attributes inform the selection process; however, a written response to the attributes is not required. The attributes are:

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

For information refer to the following weblink: Swinburne Attributes (http://www.swin.edu.au/corporate/hr/attributes/).

Further Information:

For further information, please contact Dr Sally McArthur on telephone 03 9214 8452 or Email smcarthur@swin.edu.au

Supervisor: ___________________________ Date: ________________
Signature

Dean of Faculty: Professor John Beynon Date: ________________
Signature

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

For more information, refer to following attachments/web links
Swinburne Attributes (http://www.swin.edu.au/corporate/hr/attributes/).