



POSITION DESCRIPTION

Job Title: Postdoctoral Research Fellow
Organisation Unit: Australian Institute for Bioengineering and Nanotechnology
Reference Number: 3021559
Type of Employment: Full-time, fixed term for 3 years
Classification: Research Academic Level A

Remuneration: \$50,698.23 - \$68,768.58 per annum base salary (FTE)
\$59,316.93 - \$80,459.24 per annum which includes 17% employer superannuation contribution (FTE)

For staff entitled to 17% employer contributions, UniSuper does not mandate a level of member contribution to superannuation. However, in order to receive the full standard range of benefits under UniSuper, the member must pay 7% contribution from their salary (or a salary sacrifice equivalent contribution of 8.25%). It will be assumed that a 7% member contribution will apply unless the member formally notifies UniSuper of a decision to pay a lesser member contribution (or no member contribution).

Other options for salary sacrifice include a motor vehicle, laptop computer, campus car parking and "in-house" benefits

Closing Date: 28 February 2010
Further Information: Prof. Chengzhong Michael Yu, email: c.yu@uq.edu.au

BACKGROUND

Organisational Environment

The Australian Institute for Bioengineering and Nanotechnology (AIBN) was established as a Research Institute of the University of Queensland in late 2002. The Institute is multi-disciplinary in focus with a membership that consists of world-class researchers working in the areas of bioengineering and nanotechnology. Research effort in the multi-disciplinary fields of bioengineering and nanotechnology will focus on producing new products, processes and devices for improving human health and quality of life.

The unique capabilities of the AIBN come from merging the skills of the engineer, chemist, biologist and computational scientist to conduct a world-class research program in nano-scale science, technology and engineering, regenerative medicine, technology transfer and commercialization. The Research Professionals of the AIBN are leaders in the fields of bioengineering and nanotechnology.

Information for Prospective Staff

Information about the University, State of Queensland, living in Brisbane and employment at the University is at the University's web site. (<http://www.uq.edu.au/staff>)

The University of Queensland Enterprise Agreement (Academic Staff) outlines the position classification standards for Levels A to E.

For a comprehensive guide to family friendly work practices and services visit the Work and Family web site at <http://www.uq.edu.au/equity/index.html?page=11661>.

Further information about the Australian Institute for Bioengineering and Nanotechnology may be accessed on the Institute's web site at <http://www.aibn.uq.edu.au>.

DUTY STATEMENT

Primary Purpose of Position

To make a substantial research contribution towards bio-applications of novel nanoporous and nano-materials, especially in proteomics, early disease diagnosis, bio-analysis and bio-separation.

Duties

Duties and responsibilities include, but are not limited to:

Research

- Conduct research focused on the synthesis and characterization of nanoporous and nanostructured materials.
- Explore the bio-applications in proteomics, early disease diagnosis, bio-analysis and bio-separation.
- Publish scholarly and high-level research papers.
- Provide laboratory leadership and supervision of honours and postgraduate students.
- Collaborate on joint research programs with colleagues at UQ and Fudan University.
- Work with colleagues at UQ and overseas in the development of new joint research projects including applications for external funding.

Administration

- Contribute to progress reports for research grants.
- Participating at Institute-wide committees, as lab representative.
- Purchasing and other light administrative duties.

Code of Conduct:

- Comply with the University's Code of Conduct (see the University's web site at <http://www.uq.edu.au/staff/employment/>).

Occupational Health and Safety:

- Comply with requirements of Queensland occupational health and safety (OH&S) legislation and related OH&S responsibilities and procedures developed by the University or School.

Reporting Relationships

This position reports to Prof. Chengzhong Michael Yu.

SELECTION CRITERIA

Qualifications

Essential

- PhD in the area of nanotechnology, chemistry, biochemistry, materials or a related discipline; or
- An equivalent combination of relevant experience and/or education/training.

Desirable

- Up-to-date, hands-on experiences with EM and bio-analysis techniques.
- Experience with bio-medical science, drug formulation, etc.

Knowledge and Skills

Essential

- Knowledge and skills in one or more of the following areas: material science, nanotechnology, chemistry, biochemistry.

Desirable

- Knowledge in the field of disease diagnosis, drug formulation, biomedical science.

Experience

Essential

- Up-to-date, hands-on experience with materials synthesis and characterization techniques.
- Familiar with nano-biotechnology development.
- Hands-on experience with bio-analysis techniques.
- Evidence of publication in high-ranking refereed journals.

Desirable

- Experience in ET.
- Experience with various bio-applications.

Personal Qualities

Essential

- Ability to work collaboratively with colleagues from different disciplines.
- High level communication, inter-personal and communication skills.
- High level of written communication skills.
- Sound organizational and problem-solving skills.
- Ability to work with limited supervision.
- Excellent time management skills and demonstrated ability to work within deadlines.

APPLICATION

Applications must consist of the following:

1. Covering Letter. The covering letter should include the vacancy reference number, your contact address and telephone number. It is an opportunity in not more than one page to introduce yourself and highlight the key reasons you should be considered for the role.
2. Resume or Curriculum Vitae. A resume is a brief history of your employment and experience that covers the following areas:
 - Educational qualifications and professional affiliations that detail the full title of the qualification, the year awarded and the title of the institution attended;
 - Employment history in chronological order, starting with current position and specifying dates of employment, title of each position, name of employer, main duties or accountabilities and achievements; and
 - The names and contact details (address, telephone, fax and e-mail) of three referees, including if possible a senior person (preferably your supervisor or the head of your organisational unit) closely associated with your current work.
3. Selection Criteria. A statement addressing how each of the selection criteria have been met is required to assist the Selection Committee determine whether you have the relevant qualifications, knowledge/skills, experience and personal qualities.

An academic curriculum vitae should include research fields and current interests, publications (full list as attachment with three most significant marked with an asterisk), research grants awarded and, if applicable, details of teaching evaluation.

Applications are to be sent to:

Dr. Chengzhong Michael Yu
Professor, ARC Future Fellow, Group Leader
Australian Institute for Bioengineering and Nanotechnology
The University of Queensland, QLD 4072, Australia
Email: c.yu@uq.edu.au

Please note:

- Applications should be typed;
- Do not send applications that are bound or enclosed in plastic or manila folders;
- Simply staple the application at the top left hand corner; and
- Retain a copy for your reference because the University does not return copies to applicants.

SELECTION PROCESS

A Selection Committee will consider all applications and shortlist candidates for interview who appear to meet the selection criteria at the highest levels. They will be invited to attend an interview and the remaining unsuccessful applicants will be notified accordingly.

An invitation to attend an interview provides an opportunity to provide further information to the Selection Committee to substantiate your claims against the selection criteria or demonstrate your capabilities. Please note that for some positions interviews may be conducted by teleconference in the first instance.

The Selection Committee will subsequently seek referee reports, if not sought prior to interview, before making a decision to make an offer of appointment to the preferred candidate. The purpose of referee checks is to obtain, in confidence, factual information about your past work history, as well as opinions regarding the quality of your work, behaviour in the work place and suitability for the position. Referee reports may be sought orally, or for academic staff, in writing by post or e-mail.

Referees should normally include current supervisors or and/or managers. A referee must be able to comment on your work experience, skills and performance with respect to the selection criteria. Referee checks conducted after the interview process can sometimes delay notification of the successful candidate and other interviewees.

If you are the preferred candidate, you will receive a written offer of appointment to the position. Do not take any action, such as resigning from your current position, before you receive a **written offer** of appointment.

The University of Queensland is an equal opportunity employer.

Smoking is prohibited in all University buildings.