

The Faculty of Science of the National University of Singapore invites applications for tenure-track positions in any one of the following areas:

## Positions at Assistant Professorship, Associate Professorship or Professorship level

- Areas of Biophysics** with emphasis on Molecular Biophysics; Computational Biophysics and Bioinformatics; Cell Biophysics; Neurobiological Physics; Biosensor and Bioelectronics; Biophysical Imaging and Spectroscopic Techniques or other fields of Biophysics.
- Areas of Chemistry** with emphasis on New Technologies for Bio- and/or Nano-analysis; Chemical Genetics; Homogeneous Catalysis; Biocatalysis; Experimental Chemical Dynamics in Chemical and Biochemical Systems; Synthesis of Complex Organic Molecules; Crystal Engineering; Polymers.
- Areas of Materials Science and Engineering** with emphasis on Polymeric Materials Science and Technology; Biomedical Materials; Nanostructured and Nanohybrid Materials; Advanced Materials Imaging Techniques including HRTEM; Photonic Materials and Devices; Surface and Materials Physics; Mesoscopic and Nano-devices Physics.
- Areas of Pharmaceutical Chemistry and Pharmaceutics** with emphasis on Pharmacokinetics-Pharmacodynamics; Medicinal Chemistry and Drug Design; Drug Transport and Delivery; Pharmaceutical Technology and Sterile Pharmaceuticals.
- Areas of Statistics** with emphasis on Statistical Genetics; Bioinformatics; Biostatistics and Applied Probability.

## Positions at Assistant Professorship level

- Areas of Computational Biology** with emphasis on Structural/Cell Biology; Computational Neuroscience or other areas of Computational Biology.
- Areas of Protein Science and Structural Biology** with research experience in image reconstruction and model building of protein assemblies using high-resolution cryo-electron microscopy (JEOL JEM 2010F Field emission electron microscope) or 2D crystallization of membrane receptors/channels/viruses.
- Area of Computational Materials Science** with emphasis in clustering or in transport properties

The successful candidates can expect a competitive salary and benefits package commensurable with those of the world's top universities. Outstanding individuals with postdoctoral experience and with strong commitment to research and teaching are encouraged to send their detailed curriculum vitae, list of publications, a brief research plan and full contacts of at least 3 referees to: **Ms Angela Lee, Administrative Officer (HR), Dean's Office, Faculty of Science, National University of Singapore, Blk S16, 6 Science Drive 2, Singapore 117546**, Fax: (65) 67774279, Email: [angela@nus.edu.sg](mailto:angela@nus.edu.sg), Website: <http://www.science.nus.edu.sg/>.

Further information regarding the National University of Singapore can be obtained from <http://www.nus.edu.sg/>.

**Closing date for applications is 20 November 2003**

(S45243)



## CAREERS IN BIOENGINEERING AND NANOTECHNOLOGY

The newly created Institute of Bioengineering and Nanotechnology in Singapore is seeking highly motivated individuals who are interested in making an impact in advancing research and development in the following areas:

### Delivery of Drugs, Protein and Genes

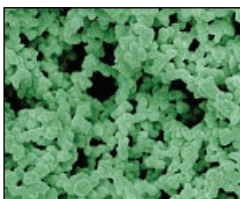
Where the controlled release of various therapeutics involves the use of nanoparticles with functionalized moieties for targeting diseased cells and organs, or for responding to specific biological stimuli.

### Tissue Engineering

Where the design and fabrication of living replacement devices for surgical reconstruction and transplantation employ sophisticated materials architecture.

### Artificial Organs and Implants

Where multi-functional systems and devices are engineered as biomimetic structures for use as organ replacement, etc.



Positions are available for **Senior Group Leader, Group Leader, Principal Research Scientist, Senior Research Scientist, Research Scientist and Postdoctoral Fellow**.

We will provide competitive salaries in the range of US\$30K – US\$180K per annum, as well as attractive benefits which include medical and dental coverage, housing subsidy, shipping and settling-in allowance, air passage for staff and family, paid home leave at the end of contract, child education allowance and a substantial non-contributory gratuity payment on completion of the contract. Remuneration will commensurate with qualification and experience.

### Medical Devices

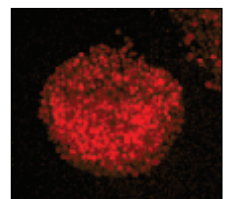
Which involve nanotechnology and microfabricated systems for the detection and treatment of diseases.

### Biological and Biomedical Imaging

Which include molecular, microscopic and optical imaging of biologics and Biomaterials, as well as small animals imaging.

### Bionanotechnology

Which encompasses the efficient catalytic synthesis and separation of chiral pharmaceuticals, as well as the detection and remediation of biologics and bacterial agents using nanostructured materials.



If you are interested in joining a multi-disciplinary research institute at the cutting edge of bioengineering and nanotechnology, please forward a cover letter, your curriculum vitae, and a list of three references to:

**Prof. Jackie Y. Ying, Executive Director, Institute of Bioengineering and Nanotechnology**  
 51 Science Park Road #01-01/10, The Aries, Singapore Science Park II, Singapore 117586  
 Email enquiries may be directed to [jjying@ibn.a-star.edu.sg](mailto:jjying@ibn.a-star.edu.sg)  
 Website: [www.ibn.a-star.edu.sg](http://www.ibn.a-star.edu.sg)