

A LITTLE TO THE SOUTH, THERE'S A NEW WORLD OF NEUTRON BEAM RESEARCH.



Neutron Scattering Instrument Scientists

YOU'RE INVITED to be part of one of Australia's foremost scientific research and development organisations, focused on delivering the benefits of nuclear science to the Australian community. Based in southern Sydney, and close to the Pacific Ocean, at Lucas Heights, our neutron scattering scientists are responsible for the design, development, procurement, commissioning and research use of a range of neutron beam instruments.

IN 2001, construction of ANSTO's Replacement Research Reactor will commence. This will be a modern purpose-built facility designed to place Australia at the forefront of research in condensed-matter physics, chemistry, materials science, polymers, engineering, biophysics and geophysics. The new facility will come on line in 2005. In order to exploit this opportunity fully, ANSTO is seeking to fill a number of instrument-development positions, with a focus on the following areas/techniques:

- **Small-Angle Neutron Scattering (for application to soft-matter systems, polymer science, complex fluids, etc.)**
- **Inelastic Neutron Scattering (triple-axis spectroscopy)**
- **Polarised Neutron Methods (diffraction and/or spectroscopy and/or reflectometry)**
- **Powder Diffraction (for application to materials science, high-throughput experiments, time-resolved experiments, etc.)**
- **Single-Crystal Diffraction (chemical and/or biological systems)**
- **Engineering (measurement of residual stresses and/or textures, in-situ loading experiments on engineering materials and components)**

IDEAL CANDIDATES will have a Ph.D. in a relevant area, at least several years postdoctoral experience at, or using, major neutron-scattering or x-ray synchrotron facilities, excellent interpersonal and communication skills and demonstrated ability to work both independently and in teams. Experience with instrument development will be an asset.

Each successful candidate will be expected to lead the instrument-development effort for one of the new state-of-the-art instruments, including conceptual design, implementation and commissioning, for completion in 2005. They will also be expected to interact strongly with in-house ANSTO research programs, with industry and the academic community, and to build up their own scientific program of research.

Selection criteria for the positions as well as information on present and future neutron scattering activities at ANSTO can be found on the Web at <http://www.ansto.gov.au/ansto/neut/>

Your application must address the selection criteria for the position, provide the names of three professional referees and should be forwarded to us by e-mail to neutrons@ansto.gov.au

or by mailing to
**Recruitment Officer, Neutron Scattering,
Physics Division, ANSTO, PMB 1,
Menai, NSW, 2234, Australia
by October 1, 2000.**

Fixed term appointments will be offered for these positions. The selection criteria cover Senior and Principal Research Scientist levels. However we would encourage all persons with relevant qualifications and expertise designing and commissioning neutron scattering instruments to apply.

If you want both career challenge and the best of the Australian lifestyle in the Olympic city of Sydney and feel you are right for ANSTO, then please send your details, we look forward to hearing from you.


**AUSTRALIAN NUCLEAR SCIENCE
& TECHNOLOGY ORGANISATION**

www.ansto.gov.au