

ADVERTISEMENT FOR PLACEMENT IN PHYSICS TODAY

Australian National University

INSTITUTE OF ADVANCED STUDIES

RESEARCH SCHOOL OF PHYSICAL SCIENCES AND ENGINEERING

ATOMIC AND MOLECULAR PHYSICS LABORATORIES

**RESEARCH FELLOW/FELLOW (LEVEL B/C)
(fixed term appointment)**

Atom Optics, Nanotechnology, Atomic Collisions

Applications are invited for a Research Fellowship in the Atomic and Molecular Physics Laboratories, Research School of Physical Sciences and Engineering. The position is for an experimentalist who can make major contributions to the Department's experimental activities based on the laser control of metastable helium atoms for experiments in atom optics, nanotechnology and atomic collision physics. The research program is centred around a state-of-the-art "bright" metastable helium beam line, a cryogenic source of metastable helium atoms and a metastable helium atom trap facility. Experiments are conducted in a range of areas including atom lithography, atom waveguides, atom-atom and electron-atom collisions and atomic spectroscopy.

The applicant would be expected to assume the day-to-day responsibilities for the operation of the beam line and associated experiments as well as providing high level input to the scientific direction of the project and supervision of research students. A preference will be given to applicants with specific experience in laser cooling and trapping techniques and experience in several of the other project fields would be a distinct advantage. The position will be available in early 2001 for a fixed term of up to five years.

Further information about the position can be obtained from Professor Stephen Buckman, Head, Atomic and Molecular Physics Laboratories, Ph: (02) 6249 2484, FAX: (02) 6249 2452, email: stephen.buckman@anu.edu.au or from Dr. Kenneth Baldwin, email: Kenneth.Baldwin@anu.edu.au.

Or visit our Web site at <http://rsphysse.anu.edu.au/ampl>

Intending applicants must obtain the further particulars and selection criteria for the position from hr.rsphysse@anu.edu.au.

Closing date: 24 November 2000

Reference: PSE 13/2000

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