POSITION DESCRIPTION

School of Physics
Faculty of Science

LECTURER LEVEL C

POSITION NO 0024816

CLASSIFICATION Level C

SALARY $92,290 - $106,416 p.a.

SUPERANNUATION Employer contribution of 17%

EMPLOYMENT TYPE Full-time (continuing) position

OTHER BENEFITS www.hr.unimelb.edu.au/careers/info/benefits

CURRENT OCCUPANT Vacant

HOW TO APPLY Online applications are preferred. Go to www.jobs.unimelb.edu.au and use the Job Search screen to find the position by title or number.

CONTACT FOR ENQUIRIES ONLY Professor David Jamieson
Tel +61 3 8344 5420
Email davidnj@unimelb.edu.au

Please do not send your application to this contact

For information about working for the University of Melbourne, visit our website: www.hr.unimelb.edu.au/careers
**Position Summary**

The appointee would be expected to establish and lead a vigorous externally funded research program in the area of Theoretical Condensed Matter Physics or related area and to supervise honours, postgraduate and research higher degree students. The appointee would also be encouraged to collaborate with other researchers, both within and external to the School of Physics, in accord with the strategic directions of the School. The appointee would be required to contribute to the school’s teaching programs at all levels, and to contribute to the life and governance of the School.

**1. Selection Criteria**

1.1 **ESSENTIAL**

1.1.1 A PhD or equivalent in a relevant area of physics.

1.1.2 A demonstrated aptitude for research and a sound record of publication in Theoretical Condensed Matter Physics.

1.1.3 An interest and enthusiasm for teaching at both the postgraduate and undergraduate levels.

1.1.4 A willingness to fully participate in all of the activities of the School of Physics.

1.1.5 Excellent communication skills, both written and oral.

1.2 **DESIRABLE**

1.2.1 Demonstrated achievement in the acquisition of research funds.

1.2.2 Research interests that could provide synergies within the Theoretical Condensed Matter Physics Group and in the wider School of Physics.

1.2.3 Demonstrated achievement in undergraduate teaching and research student supervision.

1.2.4 Demonstrated experience of teaching in the English language.

1.2.5 An interest in communicating Physics to the public.

**2. Special Requirements**

none

**3. Key Responsibilities**

**Research**

3.1 The appointee should undertake research at the highest level for publication in the leading international peer reviewed journals. The appointee will also be expected to contribute to international conferences in appropriate fields. The appointee
should have a track record commensurate with an appointment to Australia’s premier research University.

Undergraduate Teaching

3.2 The position is responsible for teaching and developing courses in physics within the School of Physics. Active involvement and enthusiasm will be expected from the appointee. The School places an extremely high degree of importance on the ability to teach effectively and enthusiastically.

Attracting Research Funds

3.3 The appointee is expected to succeed in attracting external research funding to support their activities.

Research Student Supervision

3.4 The School of Physics has a large number of PhD and MSc students and these students represent a major component of our student load. It is essential that the appointee take an active role in attracting and supervising research students.

Departmental Administration

3.5 The School of Physics takes pride in having a collegiate and cooperative environment. It is expected, therefore, that the appointee will take a willing and energetic role in ensuring that our teaching, research and administration operate at the highest possible standard.

3.6 Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in section 5.

4. Other Information

4.1 ORGANISATION UNIT

The University of Melbourne's School of Physics is one of Australia's leading physics Schools. It has achieved this status through the high quality of its research and teaching programs. The School offers a wide range of physics subjects to undergraduate and postgraduate students. It is located in a modern building on the Swanston Street boundary of the University campus. The administration area of the School has recently been renovated to provide a vibrant first point of contact for students, staff and visitors, bringing together the Head of School and the administrative team. Currently some 23 academic staff, 28 support staff, 35 research-only staff, and more than 80 postgraduate students make up the School. Skilled technical staff operate, maintain and develop, complex instrumentation and equipment to support the teaching and research activities of the School.

The School has 6 research groups which include: Astrophysics, Experimental Particle Physics, Microanalytical Research Centre, Optics, Theoretical Condensed Matter Physics and Theoretical Particle Physics.

The School of Physics hosts the Centre of Excellence in Coherent X-Ray Science and the Melbourne node of the Centre of Excellence for Quantum Computer Technology. The School also plays a major role in the Australian Synchrotron research program. Other centres that operate within the School are the Micro-Analytical Research Centre and The Research Centre for High Energy Physics.

Information on the School of Physics can be found at http://physics.unimelb.edu.au/
4.2 BUDGET DIVISION

The Faculty of Science was established in 1887, although the first record of graduates in Science at the University dates back to 1863. It is one of the University's largest faculties with some 7,000 undergraduate and postgraduate students, and has an annual budget in the order of $120m.

The Faculty of Science has a deserved reputation for the delivery of high quality teaching and research programs across a breadth of disciplines. The subjects and courses offered are integral to the quality of a significant number of the educational programs in other faculties. The Faculty has a long-standing and distinguished record of providing postgraduate education at the Masters and Doctoral levels and it has established strong international research and research education linkages within the USA, Europe and throughout the Asian region.

The Faculty is made up of four Schools and five Departments as follows: Schools of Botany, Chemistry, Earth Sciences and Physics; and the Departments of Genetics, Information Systems, Mathematics and Statistics, Optometry and Vision Sciences and Zoology. The Faculty also is responsible for the Bio21 Molecular Science & Biotechnology Research Institute.

The Faculty, through its Departments and Research Centres, is active in professional development, continuing education nationally and internationally, and in links to schools and the community.

Information on the Faculty of Science can be found at http://www.science.unimelb.edu.au/departments

4.3 THE UNIVERSITY OF MELBOURNE

The University of Melbourne is a leading international university with a tradition of excellence in teaching and research. With outstanding performance in international rankings, Melbourne is at the forefront of higher education in the Asia-Pacific region and the world. Melbourne’s outstanding performance in international rankings puts it at the forefront of higher education in the Asia-Pacific region and the world. The University of Melbourne is consistently ranked by the THES among the world's top 50 universities.

Established in 1853, shortly after the founding of Melbourne, the University is located just a few minutes from the centre of this global city. The main Parkville campus is recognised as the hub of Australia’s premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide range of knowledge-based industries.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded. Further information about working at The University of Melbourne is available at www.hr.unimelb.edu.au/careers.

4.4 GROWING ESTEEM AND THE MELBOURNE MODEL

Growing Esteem describes Melbourne's strategy to achieve its aspiration to be a public-spirited and internationally-engaged institution, highly regarded for making distinctive contributions to society in research and research training, learning and teaching, and engagement. www.growingesteem.unimelb.edu.au

The University is at the forefront of Australia's changing higher education system and offers a distinctive model of education known collectively as the Melbourne Model. The new educational model, designed for an outstanding experience for all students, is based
on six broad undergraduate programs followed by a graduate professional degree, research higher degree or entry directly into employment. The emphasis on academic breadth as well as disciplinary depth in the new degrees ensures that graduates will have the capacity to succeed in a world where knowledge boundaries are shifting and reforming to create new frontiers and challenges. In moving to the new model, the University is also aligning itself with the best of emerging European and Asian practice and well-established North American traditions.

4.5 **EQUITY AND DIVERSITY**

Another key priority for the University is access and equity. The University of Melbourne is strongly committed to an admissions policy that takes the best students, regardless of financial and other disadvantage. An Access, Equity and Diversity Policy Statement, included in the University Plan, reflects this priority.

The University is committed to equal opportunity in education, employment and welfare for staff and students. Students are selected on merit and staff are selected and promoted on merit.

4.6 **GOVERNANCE**

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at [www.unimelb.edu.au](http://www.unimelb.edu.au).

5. **Occupational Health and Safety (OHS) and Environmental Health and Safety (EHS) Responsibilities**

All staff are responsible for the following safe work procedures and instructions:

5.1 **EMPLOYEES MUST**

- cooperate with the University in relation to activities taken by the University to comply with OHS and EHS legislation.
- comply with the OHS and EHS manuals
- adopt work practices that support OHS and EHS programs
- take reasonable care for their own health and safety and the health and safety of other people who may be affected by their conduct in the workplace
- seek guidance for all new or modified work procedures
- ensure that any hazardous conditions, near misses and injuries are reported immediately to the supervisor
- participate in meetings, training and other environment, health and safety activities
- not wilfully place at risk the health or safety of any person in the work place
- not wilfully or recklessly interfere with or misuse anything provided in the interest of environment health and safety or welfare
5.2 ACADEMIC STAFF

In addition to the above, Academic Staff are responsible for ensuring that an equivalent standard of OHS and EHS is afforded to their students as is afforded to University staff generally. Academic staff are deemed to have principal supervisory duty for undergraduate and postgraduate student activities.