



Maynooth University Ollscoil Mhá Nuad

Department of Theoretical Physics Professor

The University

Formally established as an autonomous university in 1997, but tracing its origins to the foundation of the Royal College of St. Patrick in 1795, Maynooth University, (National University of Ireland Maynooth) draws on a heritage of over 200 years' commitment to education and scholarship. The last two decades have seen the University grow rapidly in scale, strength and stature. Maynooth University is today a university of international standing, renowned for the quality and value of its research and scholarship, for its dedication to excellent teaching, for providing an outstanding learning experience for its 10,000 students, and as a uniquely collegial environment in which to pursue scholarly work.

Maynooth University has embarked upon a new and exciting phase of its development under the *University Strategic Plan 2012-17* with a vision to consolidate the international reputation of Maynooth University “as a university known for outstanding teaching, excellent research, a global outlook, effective engagement with the society we serve, and our distinctive approach to the challenges facing modern higher education.”

The *University Strategic Plan 2012-17* set seven strategic goals for the University:

- to offer students an outstanding university education, the best available in Ireland, an education which challenges and supports all students to achieve their full potential, and prepares students for life, work and citizenship, and for complexity, diversity and change;
- to be recognised by 2017 as playing a leading international role and being the clear national leader in a number of thematic areas of research that address the major societal challenges of the 21st century;
- to achieve a step change in our international activities, doubling the number of international students on campus and doubling the number of domestic students spending time abroad, in order to create a truly intercultural and multilingual institution;
- to strengthen our engagement with all stakeholders through sustained partnerships with enterprises, communities, civil society and public bodies, to build support for the mission of the university, to serve the needs of society, and to open new opportunities for research and learning;
- to maximise our unique and distinctive contribution to the national system of higher education through a set of purposeful and sustained strategic partnerships at regional and national level, and to extend our international reach through a network of global partnerships;
- to be an excellent place to work, known for a collegial ethos which empowers all staff to contribute fully to the development of the university;

- to enable the achievement of ambitious strategic objectives in challenging circumstances through careful planning, excellent services and infrastructure, and sound governance and management.

The University has distinctive institutional strengths in six thematic priority areas:

- Mathematics, Communications and Computation;
- Human Health;
- People, Place and Environment;
- Social and Economic Transformations;
- Humanities in Practice: Sources, Resources & Discourses;
- Human Cultures, Experience & Creativity.

The University has 27 academic departments which are organised into three Faculties: Arts, Celtic Studies and Philosophy; Science and Engineering; and Social Sciences. The University is also home to a number of multi- and trans-disciplinary research institutes, including the Hamilton Institute and the National Centre for Geocomputation.

In a pioneering development, Maynooth University, Dublin City University and the Royal College of Surgeons in Ireland have established the 3U Partnership, a new strategic association that brings together the distinctive and complementary strengths of the three institutions.

Faculty and Research Institutes

The Faculty of Science & Engineering comprises the Departments of Theoretical Physics, Experimental Physics, Mathematics & Statistics, Biology, Chemistry, Computer Science, Electronic Engineering, and Psychology. The role of the Faculty is to co-ordinate the academic activities of individual departments, to oversee the strategic development of departments and to support interdepartmental programmes. The University has also developed a number of interdisciplinary institutes to support excellent research in the priority thematic areas and to build research capacity across disciplines. These include the Hamilton Institute for mathematics, communications and computation.

Department

The Department of Theoretical Physics (formerly Department of Mathematical Physics) at Maynooth University was established in 1960, building on a tradition of natural science in Maynooth that stretches back to the founding of the college in 1795. The Department offers high quality education in theoretical physics and the associated mathematics at both undergraduate and postgraduate level and hosts an active community of Ph.D. students and postdoctoral fellows. It is also responsible for teaching of modules in mathematics to Engineering students and in mathematics and physics to Design Innovation students.

The strong and thriving research environment in the Department is evidenced by its extensive network of international collaborations and by its continuing success in securing external research funding. Particular research strengths exist in quantum field theory, cosmology, lattice gauge theory, topological aspects of high energy and condensed matter physics, strongly correlated systems and quantum information and computation.

The department has excellent facilities on the Maynooth University North campus, including a dedicated computing laboratory. For more information on the Department, please visit <https://www.maynoothuniversity.ie/theoretical-physics>

The Role

Maynooth University is committed to a strategy in which the primary University goals of excellent research and scholarship and outstanding education are interlinked and equally valued. Professors will be expected to provide significant intellectual leadership, through a demonstrated commitment to both education and research, and also to contribute to the effective leadership and management of the Department, the Faculty and the University.

We are seeking an academic with an outstanding record to join our staff as Professor of Theoretical Physics. Applications are welcome from candidates with research strengths in theoretical aspects of one or more of the following areas:

- cosmology and astroparticle physics;
- condensed matter, especially strongly correlated systems;
- quantum information.

The person appointed will have an excellent record of teaching, research and publication and will be expected to make a strong contribution to the teaching, research and profile of the University, and to provide ongoing leadership for the discipline.

Principal Responsibilities

A Professor of the University is expected to:

- Be an international leader in research and scholarship and contribute to the advancement of knowledge in the field;
- Provide leadership in research and scholarship within the Department, Faculty and University;
- Promote excellence in teaching and learning, and encourage innovation in teaching and learning amongst staff;
- Contribute to the teaching of undergraduate and postgraduate students, including lecturing, consultations with individual students, and supervision of research students;
- Contribute to the development of the curriculum and academic programmes within the discipline and more generally;
- Assume responsibilities for management and administrative tasks associated with the Department, Faculty and University;
- Be an active member of the University and contribute to the work of the University in outreach, collaboration, internationalisation, engagement and policy development.

Professors of the University are required to serve as Head of Department when requested to do so by the President.

The ideal candidate will have:

- An outstanding record of research and scholarship, reflected in an excellent publication profile;
- An outstanding academic record as a university teacher and an educational innovator;
- The capacity to offer strong academic leadership within the department and across the university;
- Demonstrated management and administrative skills;
- Excellent interpersonal and communication skills;
- The ability to build effective relationships with a wide variety of internal and external colleagues.

Selection and Appointment

- Only shortlisted candidates will be invited to attend for interview;
- Candidates will be required to make a brief presentation to staff within the University as part of the selection process;

- Appointments will be made by the President based on the report of the selection board;
- It is anticipated that interviews will be held in late June/ early July 2017;
- The appointment is expected to be effective from 1 September 2017.

Terms and Conditions

The appointment will be made at Professorial level, of which there are two: Professor A and Professor B. The professorship will be a permanent appointment to the academic staff and subject to the Statutes of the University.

Salary

Professor A (Post 1995):	€106,516 – €136,276 p.a. (6 points)
Professor B (Post 1995):	€78,331 – €103,253 p.a. (6 points)

Appointments will be made in accordance with the Department of Finance pay guidelines.

The decision to appoint as Professor A or Professor B is made by the President based on the report of the Selection Panel and the experience and track record of the successful candidate. To be appointed at Professor A level, the successful candidate will have an excellent record of published work of international quality and demonstrated leadership in their field, will be an excellent teacher and academic innovator, and will normally have experience and demonstrated capacity in administrative as well as academic leadership.

Application Procedure

Please ensure that you USE THE FOLLOWING REFERENCE '**Prof_ThPhys**' in the subject line of your application email. This will clarify which role you are applying for.

Please note applications should be made by sending the following information as **ONE single attachment** (either in PDF or word format) incorporating all of the below required information:

- A Curriculum Vitae, including all qualifications and experience, and a covering letter addressing your interest and suitability for the role;
- The names, email addresses, correspondence addresses and telephone numbers of three referees whom the University may contact.

Once attachment is compiled please send your single document application to recruitment@nuim.ie

The completed application documents should be forwarded by email to arrive no later than midnight, Sunday 28th May 2017. Late applications will not be accepted.

Maynooth University is an equal opportunities employer

The position is subject to the Statutes of the University