



Maynooth University Ollscoil Mhá Nuad

Hamilton Institute Hamilton Professor x 2 Permanent

The Roles

Maynooth University seeks outstanding academics to join our staff as Professor of Electronic Engineering, Computer Science, Applied Mathematics, or Statistics in the Hamilton Institute. The persons appointed will have an excellent record in research, scholarship and publication, in teaching and educational innovation, and in academic leadership. They 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.

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.

Applications will be welcomed from outstanding researchers with a background in any area of Electronic Engineering, Computer Science, or a cognate discipline, including those with a track record of high achievement in areas related to the following:

- Applied probability
- Applied statistics
- Artificial intelligence
- Computer vision
- Control theory
- Cybersecurity and privacy
- Cyber-physical systems
- Data analytics
- Dependable software
- DNA/molecular computing
- High performance mobile communications
- Information theory
- Internet of things
- Machine learning
- Mathematical or systems biology
- Optimisation
- Photonics
- Quantum computing and communications
- Robotics
- Signal processing
- Statistical learning
- Wireless communications

Successful candidates who are appointed in research areas that align with those of the SFI I-Form Centre (www.i-form.ie) will be appointed, in addition to the professorial post, as a funded or principal



investigator and thus can leverage significant extra research funding. Such an additional appointment will be made at the discretion of the I-Form executive committee subsequent to an offer being made.

Maynooth University Hamilton Institute

Maynooth University's Hamilton Institute (www.maynoothuniversity.ie/hamilton) promotes interdisciplinary research spanning applied mathematics, computer science, engineering, and statistics. It aims to bridge the gap between theory and its application in science and technology. It boasts over forty affiliated faculty drawn from departments across the university, and currently hosts six internationally recognised research teams working in applied probability, data privacy, molecular computing, telecommunications, and statistics and machine learning. It has strong links to a broad range of national research centres, including the SFI Research Centres ADAPT, CONNECT, iCRAG, I-FORM, INSIGHT and LERO. It hosts European Research Council, Science Foundation Ireland, and EU Horizon 2020 grants. It co-hosts the €22M Science Foundation Ireland Centre for Research Training in the Foundations of Data Science, which offers a steady stream of funded PhD studentships and pre-existing relationships with industry and enterprise to cognate faculty.

The Institute's commitment to real world applications is reflected in its long history of industry links. Its commitment to research excellence is reflected in its research output, active links with leading international research groups (at Harvard University, Imperial College London, Institute Curie, the Massachusetts Institute of Technology, Caltech, UT Austin, and many others), and consistently high ratings in external quality reviews carried out over the last 20 years as part of research project assessments and university governance. The Institute hosts a sizeable PhD cohort, has an active international visitor programme, and organises a number of high-profile international workshops each year.

Maynooth University's objective with this appointment is to further strengthen the institute and bolster the University's reputation for interdisciplinary research and innovation in this space. Hamilton Professors, who have a co-appointment with a university department, avail of dedicated research space and laboratories in a superb building which also hosts research activities of the Departments of Computer Science and Electronic Engineering.

The SFI I-Form Research Centre

I-Form (www.i-form.ie) is the Science Foundation Ireland Research Centre for Advanced Manufacturing, and is delivering the next level of understanding and control for complex manufacturing processes. I-Form's mission is to shape the future of manufacturing through high-impact research into the application of digital technologies to materials processing. I-Form brings together a nationwide pool of expertise in materials science, engineering, data analytics and cognitive computing. I-Form is applying exciting developments in digital technologies to materials processing, to improve understanding, modelling and control, thus increasing the competitiveness of Irish manufacturing on the world stage.

I-Form works with industry and 7 higher education institutes to advance the low-cost, low-risk design of new products and the manufacture of high-value components exhibiting enhanced material performance, while reducing processing times and achieving improved process reliability. I-Form is actively engaged across a range of different materials processing technologies, with a particular focus on Additive Manufacturing (3D printing).

The Hamilton Institute leads Platform 3: Artificial Intelligence for Process and Product Optimisation of the I-Form centre with two Principal Investigators being based in Maynooth (Prof Andrew Parnell and Prof Rozenn Dahyot). There is thus considerable scope for the successful candidate(s) to collaborate and advance manufacturing methods through their appointment.

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 Institute Director when requested to do so by the President. The Hamilton Professor roles will be focussed on research for an initial period of three years.

The ideal candidate will have:

Essential

- A PhD in a relevant discipline;
- An outstanding record of research and scholarship, reflected in an excellent publication profile in the areas outlined above;
- An outstanding academic record as a university teacher and an educational innovator with a strong track record of PhD, post-doctoral supervision, and mentorship;
- The ability to lead and strategically develop national and international grants
- 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.

The University

Maynooth University is a distinctive university, a collegial institution focused on science and engineering, humanities, and social sciences, and equally committed to research, teaching and community engagement. Located in Ireland's only university town, its distinctive features and character owe much to its unique history and heritage. It provides a high-quality educational experience to over 15,000 students on a campus with 18th century roots and 21st century dynamism.

The strategic trajectory and accomplishments of Maynooth University, in the 25 years since its establishment as an autonomous public university, are exceptional, and a source of great pride to the university community, staff, students and alumni. Maynooth University is now acknowledged to be one of the leading young universities in the world, and in 2022 ranked #1 in Ireland in the latest Times Higher Education (THE) Best Young University Rankings. Maynooth University's growing global reputation is based on the originality, quality, importance and impact of its research and scholarship, commitment to teaching and learning, the quality of academic programmes, and its leadership in widening participation in higher education. The sources of success are the dedication of its staff and the energy and engagement of its students.

Maynooth University is a place of lively contrasts – a modern institution, dynamic, rapidly-growing, research-led and engaged, yet grounded in historic academic strengths and scholarly traditions. With over 15,000 students Maynooth offers a range of programmes at undergraduate, postgraduate and

doctoral level in the humanities, science and engineering and social sciences, including business, law and education. The University also offers a range of international programmes and partnerships.

Maynooth's unique collegial culture fosters an interdisciplinary approach to research, which its world-class academics bring to bear in tackling some of the most fundamental challenges facing society today. The University's research institutes and centres consolidate and deliver this impact as vibrant communities of learning, discovery and creation. Research at Maynooth is central to its teaching and the University prides itself on placing equal value on its research and teaching missions.

Principles and Values

Maynooth University is committed to the following values:

- Scholarly rigour;
- Academic freedom;
- Integrity and ethical behaviour;
- Collegiality, transparency and trust;
- Equality, inclusiveness and social justice;
- Operational excellence, organisational flexibility and responsiveness;
- Dignity, respect and care for the individual.

Maynooth University Strategic Plan 2023 – 2028

The University's Strategic Plan 2023 - 2028 builds on our rich academic history and strong foundations to set out an ambitious and forward-looking path for the future of our University. This roadmap underscores our commitment to adapt to a changing world while staying true to our values.

Our vision is to be a university of excellence, opportunity and impact, having a significant stake in all three.

For more information about Maynooth University's future direction, please visit:
<https://strategy.maynoothuniversity.ie/>

Plean Straitéiseach Ollscoil Mhá Nuad 2023 - 2028

Tógann Plean Straitéiseach na hOllscoile 2023 - 2028 ar ár stair acadúil shaibhir agus ar ár mbunchlocha láidre chun conair uaimhianach agus cheannródaíoch a leagadh amach do thodhchaí ár nOllscoile. Soiléiríonn an treochlár seo ár dtiomantas do dhul i dtaithí ar dhomhan atá ag síorathrú agus ár ngníomhaíochtaí a chur in oiriúint dó, agus san am céanna a bheith dílis dár luachanna Ollscoile. Is í an fhís atá againn a bheith mar ollscoil feabhais, deiseanna agus tionchair, agus lámh láidir a bheith againn i ngach ceann de na trí ghné seo.

Léigh anseo le haghaidh breis eolais faoi thodhchaí Ollscoil Mhá Nuad:
<https://strategy.maynoothuniversity.ie/?lang=ga>

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 during May 2024;
- The appointment is expected to be effective from Summer 2024.

Equality and Diversity

Maynooth University values the enrichment that comes from a diverse community and seeks to promote equality, prevent discrimination and protect the human rights of each individual. To learn more about our commitment to Equality and Diversity, please read the Maynooth University [Equality and Diversity Policy](#). Additionally, as an [Athena SWAN Bronze Award](#) Institute, we are committed to advancing gender equality across the University.

We aim to reflect the diversity of the community we serve and welcome applications from all individuals, in particular from people underrepresented in our workforce.

Terms and Conditions

Tenure	<p>This a full-time, permanent post x 2.</p> <p>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.</p>
Salary	<p>Professor A : €134,286 – €169,770 p.a. (6 points) Professor B : €97,259 – €130,000 p.a. (6 points)</p> <p>Appointments will be made in accordance with public sector pay provisions.</p> <p>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.</p> <p>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.</p>
Location	The place of work is the campus of Maynooth University, Maynooth, Co. Kildare.
University policies and schemes	<p>Employees of the University will be subject to the terms of the University policies and schemes, available on the University website at:</p> <p>https://www.maynoothuniversity.ie/university-policies</p> <p>https://www.maynoothuniversity.ie/human-resources/policies</p>
Pension	<p>This is a pensionable post. Employees of the University will enter into a public sector pension scheme, details of the schemes are available at:</p> <p>https://www.maynoothuniversity.ie/human-resources/pension-information</p>
Eligibility	<p>Applications from non-EEA citizens are welcomed, applicants should note that eligibility is determined by the Department of Enterprise, Trade and Employment. Further information regarding eligibility is available at:</p> <p>https://enterprise.gov.ie/en/what-we-do/workplace-and-skills/employment-permits/employment-permit-eligibility/</p>

	<p>Non-EEA applicants are responsible for ensuring they can secure a visa to travel to Ireland. Any offer of employment is conditional on applicants securing the appropriate employment permissions.</p> <p>Former Irish Public Service employees - Certain Restrictions on Eligibility</p> <p>Eligibility of applicants formerly employed by an Irish Public Sector body, and who availed of an Irish Public Service Redundancy or Incentivised Retirement Scheme under the Schemes below, may be affected:</p> <ul style="list-style-type: none"> • Collective Agreement: Redundancy Payments to Public Servants • Incentivised Scheme for Early Retirement (ISER) • Department of Health and Children Circular (7/2010) • Department of Environment, Community & Local Government (Circular Letter LG(P) 06/2013) <p>Applicants should ensure that they are eligible to be re-engaged in the Irish Public Service under the terms of such Schemes. Applicants should address queries with their former Irish Public Sector employer.</p>
Garda vetting	Garda vetting or clearance may be required by the University.
Medical	The University may require a medical examination as a condition of employment.

Data Protection Law

Maynooth University will process any personal data provided by you in connection with an application for this role in accordance with the General Data Protection Regulation and the Data Protection Acts 2018.

If your application is successful and you accept an offer of employment at Maynooth University, then your personal data will continue to be processed in accordance with Maynooth University's Staff Data Privacy Notice.

Both the privacy notices and further information relating to data protection, including Maynooth University's other data protection policies and processes, can be viewed at <https://www.maynoothuniversity.ie/data-protection>

Application Procedure

Closing Date: 23:30hrs (local Irish time) on Friday 03rd May 2024

For the role of Hamilton Professor of Electronic Engineering, enquiries can be made to Claire Anderson on Claire.Anderson@perrettlaver.com and for the role of Hamilton Professor of Computer Science, Applied Mathematics or Statistics enquiries may be made directly to Chris McCann on Chris.McCann@perrettlaver.com.

Perrett Laver is a Data Controller and a Data Processor, as defined under the General Data Protection Regulation (GDPR). Our legal basis for much of our data processing activity is 'Legitimate Interests'. You have the right to object to us processing your data in this way. For more information about this, your rights, and our approach to Data Protection and Privacy, please visit our website: <http://www.perrettlaver.com/information/privacy-policy/>.

Applications must be submitted by the closing date and time specified above. Any applications which are still in progress at the closing time on the specified closing date will be cancelled automatically by the system.

Late applications will not be accepted.

Maynooth University is an equal opportunities employer

The position is subject to the Statutes of the University

