Applications are invited from suitably qualified candidates for a full-time fixed term position as Research Fellow to lead the Platform Services Activity at the Irish Centre for High End Computing (ICHEC), University of Galway. The position is available immediately, with flexibility to work from our Dublin or Galway offices.

**Irish Centre for High-End Computing (ICHEC)**
ICHEC is Ireland’s national centre for High-Performance Computing (HPC) providing digital infrastructure capabilities and expertise through R&D engagements and skills development programmes to academia, industry and public sector organisations.

With a highly ambitious leading-edge Strategy for 2021-2025, ICHEC provides infrastructure services and expertise in HPC and data intelligence to develop efficient platforms, solutions and services based on technologies including AI, high performance data analytics, Earth Observation, quantum computing and cybersecurity across several sectors including environmental sciences, healthcare, agriculture, energy, financial services and ICT.

ICHEC works in close partnership with a number of national and international researchers, enterprises and public authorities for joint R&D, skills development, and provisioning HPC and data services to accelerate their digital transformation and green transition.

For more details reach out to our Centre Infrastructure Manager, Niall Wilson or visit [www.ichec.ie](http://www.ichec.ie).

**Job Description:**
The successful candidate will be the technical lead of the Platform Services Activity at ICHEC which aims to develop and operate a range of new platform services alongside the main National HPC service. These new platform services will leverage significant in-house infrastructure to address requirements in areas including data services, training platforms, quantum computing and artificial intelligence. The role will involve working in close collaboration with the broader ICHEC team as well as with national and international academic, industry and public sector partners.

The successful candidate will

- be responsible for leading the development of fundamental and composable infrastructure services on which a diverse set of data centric services can be developed in turn;
- work closely with other ICHEC Programmes & Activities, particularly National HPC and Data Services, Climate Sciences, Earth Observation, Health Data & Analytics, Artificial Intelligence and Quantum Computing;
- collaborate with national and international research/industry partners on the deployment and testing of emerging hardware and software platforms;
- work in conjunction with members of the ICHEC Infrastructure Group in building, securing and operating new platforms to a high service level.

This is a role for a highly motivated problem-solver, with a creative and analytical mind to build new HPC platforms, services and solutions that will have a global impact.
Qualifications/Skills required:

**Essential Requirements:**
1. A Ph.D. with 4+ years of experience in a domain relevant to high performance computing or equivalent (10+ years) research experience.
2. Robust knowledge of HPC system infrastructure and operations including:
   - Processor and computer architectures such as CPU, GPU, distributed memory cluster.
   - High performance storage subsystems and parallel filesystems.
   - Ethernet and RDMA network technologies.
   - Cluster and configuration management software.
   - Batch scheduling and workload management software.
3. Experience in deploying and managing large scale multi-petabyte data management and data storage systems.
4. Experience in technical leadership of HPC-related projects with academic, research and/or industry partners with excellent communication and organisational skills.
5. Experience with the deployment and management of Identity Management systems.

**Desirable Requirements:**
1. Experience with workflow orchestration tools such as Kubernetes, Dask, Apache Spark, or others.
2. Knowledge of integrating HPC with artificial intelligence or quantum computing software stacks.
3. Exposure to Agile/PRINCE2 project management frameworks.

**Salary:** €56,993 - €74,324 per annum pro rata for shorter and/or part-time contracts. Appointment on this range will be dependent on qualification and experience.

**Start date:** Position is available immediately.

**Continuing Professional Development/Training:**
Researchers at University of Galway are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans. University of Galway provides continuing professional development supports for all researchers seeking to build their own career pathways either within or beyond academia. Researchers are encouraged to engage with our Researcher Development Centre (RDC) upon commencing employment - see [HERE](#) for further information.

Further information on research and working at University of Galway is available on [Research at University of Galway](#)

For information on moving to Ireland please see [www.euraxess.ie](http://www.euraxess.ie)

Further information about ICHEC is available at [www.ichec.ie](http://www.ichec.ie)

Informal enquiries concerning the post may be made to [recruit@ichec.ie](mailto:recruit@ichec.ie)
To Apply:
Applications to include a 1-page motivation letter, CV (max. 3 pages), and the contact details of three referees should be sent, via e-mail (in a single PDF only) to recruit@ichec.ie

Please put reference number NUIG RES University of Galway 271-22 in subject line of e-mail application.

Closing date for receipt of applications is 28th October 2022

All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment.

National University of Ireland, Galway is an equal opportunities employer.

University of Galway reserve the right to readvertise or extend the closing date for this post.