

PRESS RELEASE

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Quinas Technology Advances ULTRARAM™-neuro Through New Lancaster University CyberFocus Project

Quinas co-funds 18-month research project targeting neuromorphic memory for energy-efficient edge AI

LANCASTER, UK — Quinas Technology is advancing the development of ULTRARAM™-neuro through a new CyberFocus project awarded to Lancaster University's ULTRARAM™ research team and co-funded by Quinas. Beginning on 1 October 2026, the 18-month project aims to develop and test neuromorphic memory arrays of up to 64 cells, supporting Quinas' exploration of applications in energy-efficient edge AI.

The project, "Ultra-efficient neuromorphic arrays for agentic edge AI", brings together Lancaster's semiconductor research expertise and Quinas' commercial development activities. Led by Professor Manus Hayne, it will investigate how ULTRARAM™ could support autonomous AI systems operating with limited power or unreliable cloud connectivity.

For Quinas, the collaboration supports the development of ULTRARAM™-neuro alongside its work on digital memory, exploring how the technology could address the growing demands of AI computing. The project combines device and array development with work to identify potential partners, applications and routes towards commercialisation.

James Ashforth-Pook, CEO of Quinas Technology, said:

"This project supports an important part of Quinas' development plans: exploring how ULTRARAM™ can serve both next-generation memory and energy-efficient AI computing.

"Working with Lancaster University, we aim to build the technical evidence needed to assess neuromorphic applications and inform the next stages of development. Alongside that research, we will engage with potential partners to understand where the technology could deliver the greatest commercial value, including in robotics, defence, aerospace and intelligent sensing."

ULTRARAM™ is being developed as a universal memory technology combining DRAM-like speed and endurance with non-volatile data storage. ULTRARAM™-neuro extends this research towards neuromorphic computing, which brings processing and memory closer together to reduce the movement of data between separate components.

The approach has potential relevance to edge AI, where information is processed locally rather than relying on a remote cloud connection. Local processing can enable faster decision-making, lower latency and the potential for significantly reduced energy consumption—particularly valuable for autonomous systems, sensors and devices with constrained power supplies.

The research will focus on improving the performance of individual memory cells before fabricating and testing progressively larger arrays of up to 64 cells. These are development objectives, with the project intended to generate evidence to guide further technical and commercial evaluation.

Professor Manus Hayne, Professor in the School of Physics and Astronomy at Lancaster University and co-founder and Chief Scientific Officer of Quinas Technology, said:

“We are delighted to have been awarded this CyberFocus project, which will provide underpinning funding to develop ULTRARAM™-neuro while helping us explore its potential in future cyber and trusted AI systems.

“Our research is exploring a combination of characteristics, including ultra-low energy switching, high endurance, a linear training response and robust retention, that could make ULTRARAM™ well suited to neuromorphic memory. This project gives us the opportunity to develop and test arrays and investigate how these characteristics could support intelligent and resilient edge computing.”

CyberFocus is a £5 million programme led by Lancaster University and funded through the Engineering and Physical Sciences Research Council's (EPSRC) Place-based Impact Acceleration Account (PBIAA) scheme. The £5 million refers to the overall CyberFocus programme, not the award to the Lancaster–Quinas project.

It brings together seven universities across the north-west to strengthen collaboration with industry and other partners, accelerate the application of research and support regional cyber innovation.

The ULTRARAM™-neuro project is the first project in the CyberFocus portfolio to date to be co-funded by the industrial partner.

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Notes to editors

About Quinas Technology

Quinas Technology is a Lancaster University spinout developing ULTRARAM™, a semiconductor memory technology being developed to combine DRAM-like speed and endurance with non-volatile data storage. Its work on ULTRARAM™-neuro explores the technology's potential for neuromorphic computing and energy-efficient AI.

About the project

"Ultra-efficient neuromorphic arrays for agentic edge AI" runs from 1 October 2026 to 31 March 2028. The project is led by Lancaster University's ULTRARAM™ research team and co-funded by Quinas Technology. Its technical objective is to develop and test ULTRARAM™ neuromorphic memory arrays of up to 64 cells.

About CyberFocus

The ULTRARAM™-neuro project is supported by the Lancaster University-led PBIAA CyberFocus project, funded by the Engineering and Physical Sciences Research Council (EPSRC) [Grant No. EP/Z536052/1]. CyberFocus is a Place Based Impact Acceleration Account led by Lancaster University in partnership with the University of Manchester, Manchester Metropolitan University, the University of Liverpool, the University of Lancashire, the University of Salford and the University of Cumbria. It supports collaboration intended to strengthen the north-west's cyber innovation ecosystem.

