CORPORATE NEWS
A snapshot of NSCC Singapore's key updates and ongoing collaborations

⚓ **Featured Read of the Month!**

OPTIMISEProp: Powering Smarter Marine Propellers with AI-Driven Design

Traditional marine propeller design relies on manual methods and expert experience. While effective, this approach can be time-consuming and limits exploration of potentially better designs due to the effort required for each iteration.

To overcome this, researchers from Agency for Science, Technology and Research's Institute of High Performance Computing (A*STAR IHPC), in partnership with Mencast, developed OPTIMISEProp—an AI-driven propeller design tool that boosts fuel efficiency and reduces emissions. Supported by NSCC Singapore's high performance computing (HPC) resources, the framework enables smarter, faster optimisation of marine propulsion systems.

Read more

Boosting HPC Capabilities, One Clinic at a Time

NSCC Singapore hosted an HPC Clinic at the National University of Singapore (NUS), providing users with dedicated, hands-on support to tackle a range of HPC challenges. In collaboration with NUS, the session focused on real-time troubleshooting—from performance optimisation and debugging to scaling applications and improving computational efficiency.

Read more

NSCC–NRP Workshop Roundup: Advancing Embodied AI Research Through Data

On 3 July 2025, NSCC Singapore and the National Robotics Program (NRP) co-hosted an Embodied AI (EAI) Data Workshop, bringing together researchers and potential collaborators from Institutes of Higher Learning (IHLs) and government agencies. The workshop provided a valuable space for exchanging ideas and discussing the evolving role of HPC in robotics and AI innovation.

Read more

DSTA Visit to i4.0 Data Centre

On 14 July 2025, the Defence Science and Technology Agency (DSTA) visited NSCC Singapore's i4.0 Data Centre for an in-depth look at the nation's HPC capabilities. Hosted by NSCC Singapore, the visit aimed to highlight how supercomputing infrastructure can support and accelerate defence-related research and innovation.

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ASPIRE 2A and ASPIRE 2A+ Introductory Workshops

As part of NSCC Singapore's ongoing onboarding programme for new users, the ASPIRE 2A and ASPIRE 2A+ Introductory Workshops continued to provide essential guidance on navigating and using the centre's next-generation HPC systems. These sessions were designed to familiarise participants with the respective system architectures, workflows, and key differences from earlier platforms.

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SCA/HPCAsia 2026: Call for Submissions

Get ready for Asia's biggest HPC event of 2026! SupercomputingAsia 2026 (SCA2026) and HPC Asia 2026 are coming together for a joint international conference, bringing the region's most influential minds in supercomputing to one powerful platform - SCA/HPCAsia 2026.

We invite the HPC community to contribute original research and ideas through the following submission tracks:

◆ Papers – Deadline: 5 September 2025
◆ Birds of a Feather (BoFs) – Deadline: 8 September 2025

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THE LAST BYTE
Shared reads and cool finds from the HPC world

Singapore's SingAREN Leverages Ciena's Optical Technology to Support AI and More

In the coming months, SingAREN will enhance its network to further support its research institution partners. These plans include the SingAREN Lightwave Internet Exchange (SLIX) 2.5 project, to provide high-speed, secure connectivity by 2027, and the SLIX 3.0 vision to build a future-ready network that incorporates quantum-safe networking, AI research, and haptic surgery.

Read more

Image credit: SingAREN

KISTI Secures Funding to Establish South Korea's National Quantum Computing Center of Excellence with IonQ as Primary Partner
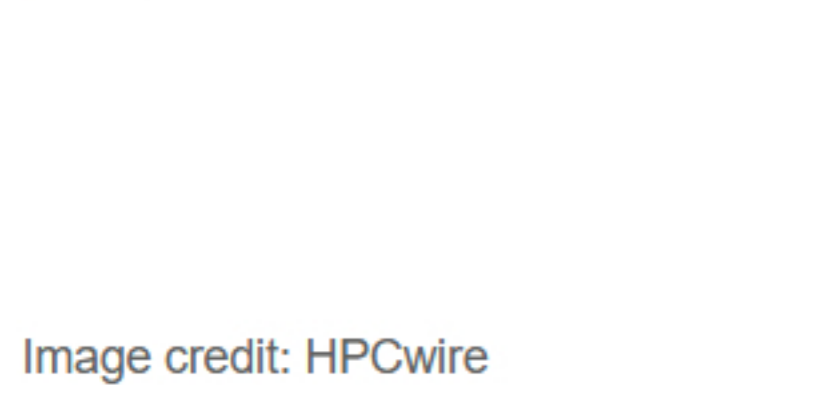

The Korea Institute of Science and Technology Information (KISTI) has secured a multi-million dollar government award through the "Quantum Computing Service and Utilization System Construction Project." This initiative is set to establish South Korea's first National Quantum Computing Center of Excellence. KISTI has identified IonQ as the primary quantum technology provider for this project, with Megazone Cloud also participating as a cloud service and infrastructure provider.

Read more

Image credit: KISTI

HPCwire Unveils List of 35 HPC Legends: Class of 2025

HPC is a unique market because scientific researchers, HPC customers, and vendors have all worked together to advance HPC together, so the HPCwire 35 Legends are researchers, inventors, and executives who have turned ideas into technological and commercial successes.

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Image credit: HPCwire

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