

High-performance computing upgrade with direct liquid cooling

Salute partnered with the **University of Leicester** to transform its on-campus Computer Centre, doubling capacity and introducing direct liquid cooling alongside existing air-cooled systems - a first for UK higher education.



Project data

-  **Deployment location:** University of Leicester, UK
-  **Deployment type:** HPC data centre transformation with direct liquid cooling
-  **Scope:** Design, integration, commissioning, and optimisation of DLC and air-cooled systems

Our customer's business priority

- Support growing HPC research needs.
- Increase capacity and cooling efficiency.
- Deliver a future-proof DLC and air-cooled solution.

Problems our customer faced

- Existing air-cooled infrastructure unable to meet rising HPC demands.
- Need for seamless integration of DLC technology into operational environment. First-of-its-kind deployment requiring careful design, commissioning, and operational optimisation.

Solutions provided by Salute

- Designed and implemented 150kW DLC system alongside air-cooled infrastructure. Managed full RIBA 0–7 process and collaborated with Hewlett Packard Enterprise.
- Optimised operation through Design Guardian and ongoing commissioning support.

Business Impact

- **Enhanced HPC capacity and efficiency**
doubling computing performance while integrating DLC and air-cooled systems
- **Future-proofed research infrastructure**
providing scalable, optimised cooling for cutting-edge scientific projects