NordForsk is seeking:

- ## Nordic WLCG Tier-1 dCache Developer

NordForsk[1] coordinates the Nordic WLCG Tier-1 (NT1) collaboration on behalf of the participating Nordic countries. NT1 is financed through national contributions and delivered by the participating national e-infrastructure organisations under a Nordic Memorandum of Understanding. NordForsk provides the administrative, contractual and governance framework for the collaboration.

https://www.nordforsk.org

The Nordic Tier-1 (NT1) is the Nordic contribution to the Worldwide LHC Computing Grid (WLCG), which provides computing and data services for the Large Hadron Collider experiments at CERN. NT1 operates a large distributed infrastructure across Nordic sites, with around 60 petabytes of storage and growing.

The core responsibilities of NT1 include:

- Operating reliable, high-availability storage and computing services for WLCG.
- Developing and maintaining dCache-based distributed storage, ARC services, accounting and supporting middleware.
- Monitoring service health, performance, capacity, security and data movement across the participating sites.
- Providing coordinated Operator-on-Duty coverage and supporting the 24/7 availability requirement.
- Collaborating with CERN, WLCG, dCache.org, national providers and other big-science infrastructures.
- Preparing the Nordic service for evolving experiment requirements, including the High-Luminosity LHC era.

[1] NordForsk is an organisation under the Nordic Council of Ministers that provides funding for Nordic research cooperation as well as advice and input on Nordic research policy. The organisation plays a key role in enhancing the value of existing research activities in the five Nordic countries, Finland, Sweden, Norway, Denmark and Iceland, as well as the autonomous territories of the Faroe Islands, Greenland and the Aaland Islands. The organisation's head office is located in central Oslo. For further information, see https://www.nordforsk.org.

NordForsk is looking for a dCache Developer to work with the distributed operations team that runs the Nordic Tier-1 for LHC data storage and computing. The service is part of WLCG, an international infrastructure that manages scientific data and computing at exabyte scale. NT1 currently operates approximately 60 petabytes of distributed storage, with continued growth expected toward the High-Luminosity LHC era.

The new team member will report to the NT1 Activity Manager and is expected to commit 50% of full-time work to NT1. The remaining time should be committed to the candidate's home institution at one of the participating Nordic sites. The engagement is normally established through a two-year renewable service contract with NordForsk.

The position is centred on dCache, the open-source software that powers NT1's distributed storage service. The dCache Developer will participate in the international dCache.org development community and help ensure that the software meets the current and future needs of NT1, WLCG and other data-intensive scientific infrastructures. dCache is primarily developed in Java on a distributed software architecture.

In addition to software development, the dCache Developer will work closely with the NT1 operations team. This operational contact is essential for understanding production requirements, resolving complex incidents and guiding upstream development based on real service experience.

It is expected that the candidate has, or is interested in, permanent employment at a national e-infrastructure organisation, scientific computing centre, university or collaborating institution in a Nordic country. Candidates must have a good command of English, both written and spoken, and be able to work effectively in a geographically distributed team.

The functions and responsibilities of the dCache Developer include:

- Working as an integrated contributor to the distributed dCache.org development team.
- Designing, implementing, reviewing, testing and documenting Java components for a large distributed storage system.
- Improving the reliability, scalability, performance, observability and maintainability of the storage software stack.
- Maintaining NT1-specific plugins, integrations and operational tooling, while upstreaming generally useful improvements where possible.
- Providing expert support to the NT1 operations team during incidents, upgrades, migrations and performance investigations.
- Supporting new storage and data-access requirements from WLCG experiments and other big-science communities.
- Participating in technical discussions and coordination within dCache.org, WLCG and relevant storage communities.

The successful candidate should have strong software-engineering skills in Java and experience with Linux, Git, automated testing and distributed systems. Experience with dCache, large-scale storage, data-transfer protocols, CI/CD, monitoring or WLCG services is an advantage. The role requires analytical troubleshooting skills, clear technical communication and the ability to plan and deliver work independently.

The distributed NT1 team uses text-based group chat for daily communication, regular video meetings and normally up to three face-to-face team meetings per year.

Questions about the position and applications should be directed to Mattias Wadenstein, NT1 Activity Manager (maswan@ndgf.org), or Abdulrahman Azab Mohamed, NT1 Activity Owner (abdulrahman.azab@sigma2.no). Application deadline 2026-11-29.