



(JD for Req 4915)

DDN France is seeking a **Field Storage Engineer & Lustre Developer** to work from Paris / Ile de France area.

Half of the Engineer time will be dedicated for one large HPC DDN Customer – *The Client* – and the other half will be shared for others DDN Clients, Projects, etc.

This is an incredible opportunity to be part of a company that has been at the forefront of *High-Performance Computing* data storage innovation for over two decades and now the de facto choice for *Artificial Intelligence* Storage. DDN Storage is a global market leader renowned for powering many of the world's most demanding HPC & AI data-centres, in industries ranging from life sciences and healthcare to financial services, autonomous cars, Government, academia, research and manufacturing.

"DDN's A3I solutions are transforming the landscape of AI infrastructure." – IDC

“The real differentiator is DDN. I never hesitate to recommend DDN. DDN is the de facto name for AI Storage in high performance environments” - Marc Hamilton, VP, Solutions Architecture & Engineering | NVIDIA

Job description:

DDN Storage and the largest HPC Customers in the world have been working together to enable large scale parallel filesystems to power large scale compute clusters for many years.

This partnership revolves mainly around **High-Performance Storage** and **Parallel File Systems**, such as *Lustre*, improving and developing cutting edge technologies for HPC and Ai.

We are seeking to hire a **Field Storage Engineer** *with File System development skills*.

Please note applicants **must have French citizenship** to comply with government's security clearance procedure.

The **Field Storage Engineer & Developer** is a “hybrid” role with an equal time distribution of:

1. System Engineering for the Field:

- Install, optimize DDN’s High-Performance Storage “EXAScaler” solutions (powered by *Lustre* File System) for Prospects and Customers in France, and possibly Europe and Middle-East when required.



- Train Partner and End-User on the EXAScaler Solution that has been deployed.
- Benchmark the said EXAScaler Storage Solution with industry-standard HPC I/O tools such as FIO, IOR, IOZONE, MDT and across the Cluster of HPC / Ai CPU-GPU Compute Nodes.
- Troubleshoot, when necessary, I/O errors at the file level and at the block level.
- The applicant will be interacting with several DDN Departments like Presales, Global Education, L1/L2 Support and Storage / Parallel File System Subject Matter Experts based in the Field.
- The applicant will also engage End-User and when necessary, Partners and Industry Representatives (such as Servers Manufacturers, GPU Vendors, etc.).
- Applicants will receive technical training from DDN Storage experts.

2. *File System development for one specific large HPC Customer – The Client:*

- For this section of the work, the applicant's will be in direct contact with The Client's administration team.
- The role here will be to understand, troubleshoot and provide technical support for the various *Lustre* filesystems in production at The Client premises.
- The applicant will also be required to channel technical feedback and user stories between The Client and DDN to improve the products (hardware and software).
- This will require the applicant to dive into the *Lustre* filesystem, an industry standard parallel filesystem developed by Whamcloud (a division of the DDN group).
- Whamcloud, a DDN Division, is always releasing *Lustre* software patches into the Master Branch. The applicant will back-port *select* patches into The Client's *Lustre* distribution.
- Over time, once fluent with back-porting *Lustre* patches, the applicant will contribute to Whamcloud & The Client *Lustre* code development efforts for new features or bug fixes.
- Applicants will receive technical training from DDN and Whamcloud experts.

Required Skills and experience:



- Rigorous reporting and communication, both in the French and English languages.
- Experience with the Linux kernel and understanding of certain subsystems (such as the I/O schedulers or network stack).
- Experience in software development like C/C++ or RUST, ideally with Linux Kernel development previous experience.
- Experience of scripting languages such as Python and Bash.
- Knowledge of high-speed interconnect (such as InfiniBand) and TCP/IP networking, not mandatory but appreciated.
- Experience with the Lustre filesystem is appreciated.
- Knowledge and/or experience of storage systems is a plus.

Location: Ile de France