

# Software Architect, Database Manager

Full time - Permanent position (CDI)

## About Pharnext

Pharnext (<https://www.pharnext.com>) is an advanced clinical-stage biopharmaceutical company developing novel therapeutics for orphan and common neurodegenerative diseases that currently lack curative and/or disease-modifying treatments. Pharnext has two lead products in clinical development. PXT3003 completed an international Phase 3 trial with positive results for the treatment of Charcot-Marie-Tooth disease type 1A and was given orphan drug status in Europe and the United States. PXT864 has generated encouraging Phase 2 results in Alzheimer's disease. Pharnext has developed a new drug discovery paradigm based on big genomic data and artificial intelligence: PLEOTHERAPY™. Pharnext identifies and develops synergic combinations of drugs called PLEODRUG™. The Company was founded by renowned scientists and entrepreneurs including Professor Daniel Cohen, pioneer in genomics, and is supported by a world-class scientific team.

## Position

The Pharnext Data Science Department is looking for a qualified programmer with experience in software development, big data and database development for life-sciences-oriented applications.

## Responsibilities

As a software architect:

- Implement, optimize and review code.
- Version and containerize code.
- Create and maintain programming SOPs.
- Create detailed specifications and training manuals for users.
- Make high-level programming choices.
- Work with collaborators with a wide range of backgrounds.

As a database manager:

- Design and implement reliable and effective databases in big data frameworks (Hadoop, Spark).
- Version, secure and manage databases.
- Gather user needs and deploy new features.
- Stay up-to-date on big data frameworks and suggest new products, service and protocols.

## Requirements

- MS degree with an additional 3 years' experience in computer science or related fields
- Experience with:
  - At least 3 programming languages, including R and Python.
  - Software development with good practices such as versioning (e.g., SVN, Git + Github/Gitlab, Mercurial), virtualization/containerization (e.g., Docker, Singularity), and workflows managers (e.g., Kubernetes, Apache Taverna, Nextflow, Snakemake).
  - Relational and non-relational databases (e.g., SQL, MongoDB).
  - High Performance Computing solutions (e.g., local computing cluster, AWS).
  - Big data frameworks (e.g., Hadoop, Spark, Hive, Storm).
  - Data management (permission, recovery, security, monitoring).
  - Analyzing and running hardware, software and network ecosystems.

- Knowledge and understanding of:
  - Life Sciences and Machine learning are a big plus.
- Ability to:
  - Multitask.
  - Perform well in a fast-paced environment.
  - Communicate in English and French.

## Contact

You are highly motivated and enjoy working in an interdisciplinary and international environment to contribute to the development of novel therapies against orphan and common diseases, send:

- A full CV
- A motivation letter (max. 2 pages)

To [cv.datascience@pharnext.com](mailto:cv.datascience@pharnext.com)

## Location

PHARNEXT

11-13 rue René Jacques

92130, Issy les Moulineaux

France