

Lead Software Engineer

NETRI is an industrial start-up that designs and manufactures standardized neuro organs-on-chip for life-science companies focused on neurological disorders, pain and dermo-cosmetics. NETRI offers R&D services and commercializes organs-on-chip devices for R&D departments and CROs in pre-clinical stages. NETRI's products and services are used to anticipate the efficacy of innovative treatments, accelerate preclinical research phases, and reposition compounds on new indications, all the while limiting animal testing.

Its patented technologies make use of repeatable human neural circuits coupled with multiple human cell types. This opens the way for more effective high-throughput screening of compounds by allowing the creation of predictive human-based models. With more than 45 collaborators, including 12 PhDs part of a multidisciplinary team (engineering, biology and digital), NETRI is located in Lyon (France) with 300 m² of clean room facilities and P2 labs. In 2022, NETRI secured a Series A funding of 8 million euros and is currently closing a Series B round to support its industrial and international growth.

For more information: netri.com

Description

We are looking for a Lead Software Engineer in order to design, develop, test and deliver software that meets our business and customer needs.

Your missions

- Build from scratch new analytics tools in the area of neurosciences (electrophysiology, imaging, cell culture).
- Design, manage, implement -writing code- (partly) and oversee development of innovative analytic software that could be partly Cloud based.
- Implement the core algorithms produced by the datascience team.
- Own the Software Architecture and Detailed Software Designs.
 - Make sure that Software Release Process is followed from requirements to tests
 - Apply software engineering rigor and best practices to data engineering using CI/CD
 - Ensure the modularity of the software to improve our risk management and testing strategy
 - Oversee database strategy
- Design the software deployment and distribution strategy according to business requirements.
- Design the Development Plans and approve change request, Design reviews deliverables (review merge requests in gitlab)
- Verify software behavior meets requirements through manual and automated tests; Analyze, debug and help resolve customer issues
- Make sure Cyber Security or personal data management (if applicable) aspects are covered
- Participate and/or approve in the writing of technical requirements and other regulatory documents
- Work internally with data scientists and product owners. You will also be responsible for managing external developers or other tech resources as required.

- Be responsible to establish tech specs requirements from business requirements.
- Be expected to engage with Stakeholders, IT teams and delivery teams to ensure accountability and drive value.
- Participate to research programs and industrialisation programs.
- Be expected to push state of the art technical solutions
- Ensure the technology and the competitive landscape watch within your area of expertise
- Act as a technical authority in the framework of the project management of the company : Provide technical leadership in all phases of a project from discovery and planning through implementation and delivery.

Technical stack (subject to change)

- Languages: Python, C/C++, SQL
- Encapsulation technology: Docker, Kubernetes
- BigData tools: Spark or equivalent
- Cloud: Snowflake, AWS or equivalent
- Database: MongoDB or equivalent
- CI / CD: Gitlab

Required Education and experience

- Education: Master / Engineer / PhD computer science, software engineering or related field
- 5+ years of experience in software engineering
- Extensive knowledge of Python
- Good knowledge of C/C++
- Extensive knowledge of CI/CD methodologies
- Good knowledge of cloud services and cloud computing (if possible snowflake)
- Knowing how to design and implement efficient and scalable data pipelines, in interaction with micro-services (using Docker or equivalent)
- Languages : fluent in French or professional efficiency in English

Important basics to succeed in this position

- Strong work ethic & daily act with integrity, honesty and fairness
- Excellent communication and team work skills
- Excellent project management and prioritization skills
- You are able to discuss and communicate about your work
- Autonomy and curiosity to develop skills in new technologies
- Self-driven, able to work independently as well as on cross-functional teams
- Pro-active and problem-solving attitude, very strong prioritization skills

Bonus skills

- knowledge on machine learning & statistics (mainly on Python)
- Knowledge on bio-signal processing
- Experience with large volumes of data and time-series
- Experience in software as medical device
- Experience in biotech or health industry is a plus

Profile sought

- Are you agile, passionate and daring?
- You like to work in a team and share your knowledge?
- Do you want to join an industrial startup with an innovative project that makes sense?

You are surely the person we are looking for, join the NETRI adventure!

Send us your CV and cover letter to: jobs@netri.com