

## Junior Java Developer for Data Integration and Processing Tasks

### We want you!

Clinerion is a Swiss-based software and services company with international operations in the US, Switzerland and Turkey. Clinerion provides disruptive software solutions supporting life sciences companies and hospitals in the process of developing new medicines.

One of our key solutions is Patient Network Explorer (PNEx), which automatically finds eligible patients for clinical studies in Big Data settings, such as hospitals and other healthcare organizations. In drug development, this addresses a major problem of finding significantly more eligible patients faster and at lower costs. PNEx works through integration with Electronic Health Records at hospitals and represents a federated network of servers, allowing central querying and local patient identification.

To strengthen our existing Software Development Team in Basel we are currently hiring a **Data Integration and Processing Engineer (Junior)**. The applicant preferably lives within commuting distance from Basel. This position is open to start immediately or upon agreement.

### Job description:

You will support the installation team in connecting hospitals to PNEx. You will extract data from different kinds of databases installed in various healthcare organizations located all over the world and send it to other systems via webservices using clients. The data may also be sent as messages, e.g. HL7, and these messages will need to be processed and sent over to other systems. You will communicate with developers from our partner organizations to understand the database/messaging structure and then extract the data.

### Tasks:

- Extract health care data from different kinds of sources transform and load (ETL) them to PNEx.
- Support partner organization in extracting, transforming and loading of healthcare data to PNEx.
- Build connectors for data exchange between PNEx and other common platforms (e.g. i2b2).
- Develop data validation routines and reports for ensuring completeness and quality of health care data.

### Requirements include:

- Bachelor's or master's degree in computer science or closely related discipline.
- Experienced in working with databases, including querying different databases like Postgres, Oracle, MySQL in an efficient and performant way.
- Knowledge of webservices and xml technologies to implement ETL routines.
- Experience with big data concepts and basic knowledge in indexing technologies (e.g. Lucene, MongoDB).
- Experience in writing and implementing requirement specifications for data connectors.
- Good experience in Java development, IDE (Eclipse), build tools (Maven). Good experience in testing tools to ensure the quality of implemented ETL and components.
- Ability to work independently or as part of a team. Effective interpersonal and communication skills.
- Ability to thrive in a dynamic and international environment.
- Experienced in working with data in health care, medical data standards, ontologies, controlled vocabularies (e.g. ICD-10, SNOMED CT, LOINC, UMLS) is desired.
- Excellent English language skills, additional languages are a plus.
- Applicable Swiss or EU work and residence permits.

### How to apply?

Please send your CV and motivation letter to [katja.bahnerth.knorr@clinerion.com](mailto:katja.bahnerth.knorr@clinerion.com).