RISC Software GmbH
Software and Research in Logistics, Industry, Medicine and IT

Our Company

The activities of RISC Software GmbH, a subsidiary of Johannes Kepler University Linz and Upper Austrian Research GmbH, focus on the development of complex software solutions for industry and science. Our clients are industry-specific market leaders and international corporations with whom we have successfully realized a large number of projects over the past 29 years. We were able to establish ourselves as national and international R & D partners for demanding and innovative software developments. Our solutions focus on the areas of Logistics Informatics, Industrial Software Applications, Domain-specific Applications and Medical Informatics.

RISC Software GmbH is situated in Hagenberg im Mühlkreis, approx. 20 km away from Linz in Softwarepark Hagenberg. Softwarepark Hagenberg is a research, training and business location and is distinguished by its state-of-the-art infrastructure, as well as a diverse network of experienced industry experts, young creative people and students who are eager for knowledge. This synergy in particular is a major part of the recipe for success; as the software park is a place of communication and meeting, where more than 3,000 people work, research, teach, learn and live.

Unit Logistics Informatics: Software for planning, optimization, simulation and control of logistics processes.

Nowadays logistics means much more than just the transport or storage of goods. It is the digitalization, organization, planning and control of complex flows of goods. But also the reactions to short-term changes in the general conditions in the supply network are becoming increasingly important. The design of logistical processes, their mapping and integration into existing systems using IT are decisive factors in determining the quality of services and products and thus ultimately the sustainable success of companies.

The Logistics Informatics unit of RISC Software GmbH has a wide range of competence areas with which it makes a valuable contribution to ensuring the competitiveness of its customers in an increasingly dynamic environment.

Data Engineering - The key for value generation from industrial data

A Data Engineer has the task of preprocessing data to enable its efficient use by data scientists. Therefore, a data engineer designs and implements solutions related to the extraction, transformation, and loading (ETL) of data. The data often initially is available as files locally or at remote servers such as databases or is directly retrieved from a network stream. The input data may have a wide variety of binary or text formats. In addition, parts of the data may be missing or not conforming to the data format specification.

Typically, the first task is retrieving and converting the data as well as cleaning it and ensuring its consistency. The data is then typically stored in a NoSQL database for scalability reasons. The data is often received at high rate and fast querying of large data sets up to the terabyte range is often a requirement. Therefore, the selection of the database type as well as the design of the data model is crucial to accommodate fast write speeds and querying of large data sets up to the terabyte range. Even after the data is fully ingested, new query types often require a different aggregation or subset of the data and therefore additional data transformations.

Profiles

Required skills:

- Programming / Software Engineering (preferably Java and/or Python)
- Basic familiarity with a Linux environment (command-line interface) or: desire to learn it

Additional desired skills:

- Familiarity with data processing / data streaming frameworks (e.g. Apache Hadoop, Apache Spark, Apache NiFi, Apache Kafka)
- SQL and NoSQL databases (e.g. Hadoop, HBase, Cassandra, MongoDB, Time Series Databases, Graph Databases)
- Linux server configuration and services deployment, Docker containers

More detailed information on Data Engineering is available here: https://risc-software.at/en/units/logistics-informatics/data-science/

What we offer

Due to legal reasons we are obliged to disclose the minimum salary for this position, which is € 36.400 gross per year based on full-time employment (38.5 h/week). We offer a higher salary in line with qualifications and experience.

Be part of our development team and enjoy our great company culture.

<u>Are you interested?</u> Apply and send your application documents to career@risc-software.at