Job Posting: Software Engineer

Location: DCA Instruments, Aerotie 6,

Turku, Finland

About Us:

DCA Instruments, a pioneering force in the field of Molecular Beam Epitaxy (MBE) systems, stands at the forefront of ultra-precision layer deposition technology. Our MBE systems are expertly engineered to deposit materials onto substrates with the precision of single atom layers, a critical capability for the fabrication of advanced semiconductor devices, quantum computers, photonics, battery materials, and a diverse array of other cutting-edge applications. Our commitment to innovation and quality positions us as a key enabler in the development of future technologies. We believe in pushing the boundaries to stay ahead of the curve, and we're on the lookout for a passionate software developer to help us achieve our next big vision. We are an equal opportunity employer dedicated to inclusivity. We welcome diverse talent based on merit alone.

Position Overview:

We are seeking a dedicated and experienced software developer to be part of the team designing and implementing a cutting-edge software solution to control our company's machinery. In this role, you will have significant freedom to explore and establish the best practices in your field, shaping the future of machine control in our industry. This role will be instrumental in bringing our machine control to the forefront of the industry, ensuring efficiency, reliability, and excellence.

Key Responsibilities:

- Work closely with the engineering and product teams to gather requirements and design software solutions.
- Develop and implement software using Java, Python, or other relevant programming languages.
- Develop modules of the software system based on requirements, communication protocols, and best practices in software development.
- Proactively maintain and update the software as needed, ensuring optimal performance and responsiveness.
- Test the developed modules; collaborate with the QA team to identify and rectify bugs and software inefficiencies.

- Stay updated with the latest trends and technologies in the software development world to ensure our solutions are always cutting-edge.

Qualifications:

- Understanding of Java and object-oriented programming principles.
- Familiarity with Git.
- Basic knowledge of database concepts (specific experience with time-series databases is not required but is a plus).
- Ability to write clear and comprehensive documentation, including for APIs.
- Understanding of unit testing.
- Strong analytical and problem-solving skills and a passion for innovation
- Ability to work effectively in a small team.
- Experience in prompt engineering with platforms like ChatGPT for optimized code creation.
- Open to EU nationals and those with an existing valid work permit for Finland.

Preferred Skills:

- Experience with API development.
- Familiarity with Spring.
- Eagerness to learn and adapt in a dynamic environment.

What We Offer:

- A collaborative atmosphere with top-tier colleagues dedicated to excellence in innovation.
- Competitive salary and comprehensive benefits.
- Opportunity to work on the latest software technologies.
- A supportive work environment that encourages continuous learning and growth.

Would you like to join our team? We eagerly await your application, including your salary expectations. Please apply for the position via the email address below.

For further enquiries or additional information, please contact us at **markku.rajala@dca.fi**