

Algorithm Specialist / Computational Engine Developer

Overview

Optessa is looking to hire an Algorithm Specialist with suitable qualifications and relevant experience to be based in our Hazlet, New Jersey office. The Algorithm Specialist will be part of our product development team and work on enhancing and maintaining our existing product suite. The Algorithm Specialist will work closely with our Product Managers, other algorithm specialists and developers to add functionality and capabilities needed to address the evolving requirements of our global customer base, consisting of the largest and most respected manufacturers in the world. The nature of the work is highly challenging and rewarding, with the satisfaction of solving real-world problems and seeing your work “in action”. The Algorithm Specialist must possess a high degree of proficiency in all the areas described below.

This role will be based in the Hazlet, New Jersey office.

About Us

Optessa is a leader in intelligent planning, sequencing, and scheduling optimization software with many successful implementations among top tier global manufacturers. Optessa products have wide applicability in industries as diverse as auto OEMs, suppliers, power equipment, electronics, semiconductor, mills, batch process industries such as food and beverage and paints and in the shipping and logistics area. Optessa has been on a strong growth trajectory for the last 5 years and has strong partnerships with major global consulting partners.

The company has offices in Edmonton, Alberta, Canada, Hazlet, New Jersey, USA and Goa, India. Optessa’s leadership team combines deep expertise in software, mathematics, manufacturing, and optimization technologies with unmatched customer commitment. Optessa’s team supports global deployment at more than 100 distinct manufacturing facilities and production areas.

Optessa offers competitive compensation packages along with a culture that values growth and retention of our employees while maintaining a good work and life balance.

RESPONSIBILITIES

- Work on new product features: from requirements to design to specification and development
- Interact with customers and project teams to identify and prioritize new product features
- Develop design schemes and develop algorithms to add features to the core system
- Prototype design alternatives
- Implement and test algorithms
- Specify algorithms in sufficient detail for developers in team
- Design test cases for validation and system verification
- Maintain code, troubleshoot any issues
- Monitor and enhance core systems for performance

- Document and communicate product features to project teams and customers
- Stay current with latest research and help with longer term product evolution

QUALIFICATIONS

- A PhD or MS/BS with equivalent experience in Engineering, Physics, Computer Science or Math
- Proven ability to abstract, model and analyze real-world systems
- Experience with classical and heuristic optimization methods
- Familiarity with AI / ML applications
- Strong problem solving and troubleshooting skills
- Ability to quickly learn and understand new technologies and processes
- Strong software skills, competence with Java
- Excellent communication skills

EEO Statement

Optessa is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sexual orientation, gender identity, national origin, protected veteran status or disability status and will not be discriminated against on the basis of disability.