CareerCross

Control Software Engineer | Featured AI Solution Start-up

Flextime&Hybrid Work★Global Environment

Job Information

Recruiter
G Talent at Bizmates, Inc.

Hiring Company
Featured AI Solution Start-up Company

Job ID
1483813

Industry
Internet, Web Services

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
7 million yen ~ 10 million yen

Work Hours
Flextime

Refreshed
July 19th, 2024 07:00

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
Fluent

Minimum Japanese Level
None

Minimum Education Level
High-School or Below

Visa Status
No permission to work in Japan required

Job Description

【About the Company】

The company's mission is to "automate every machine and innovate production sites around the world."

In Japan, structural issues caused by vital statistics such as aging and the declining population have a serious impact on various industries. Looking at technological trends around the world, artificial intelligence technology and software optimization technology they have made dramatic progress.
It is expected to enable various difficulties and bring about further innovation.
Looking at Japan's technological strengths, there are hardware manufacturers in a wide range of industries in Japan.

The manufacturing industry has taken root as a core industry.
It is foreseen that many countries will face the challenges facing Japan at different times.
Based on these situations comprehensively, the company uses software optimization technology, which is one of the world's leading trends. Leverage the manufacturing industry peculiar to Japan, first of all, realize the technology to automate a wide range of machines.
Secondly, they are looking to solve important issues in Japan, and thirdly, they will challenge the world with the technology cultivated in the process of solving the issues. They have a mission to "automate every machine and innovate the world's production sites."
They are convinced that it will transform and innovate not only Japan but also the world socially and economically, and they will work hard every day to realize it.

【Job Description】

As a control engineer, you will develop control algorithms for the automatic operation of heavy equipment (backhoes (excavators), cranes, bulldozers, etc.) operating in uncertain environments.

【Role/Responsibilities】
You will be mainly responsible for:.
・Controller development of uncertain plant characteristics
・System identification of complex hydraulic systems
・Development of task-specific motion planning and collision avoidance capabilities for heavy equipment
・Controller validation and tuning in a simulator environment
・Controller validation and testing in a real hardware environment
・Robotics system integration through close collaboration with other teams

【Working conditions & treatment】

Flextime System

・Saturday/Sunday/National Holiday
・Annual Paid Leave
・New Year Holidays
・Congratulations & Condolence Leave

・Full Social Insurance
・Commuting Allowance
・Remote Work Available
* You may come to work or come to the site if necessary, so it is required to live within the commuting range.

Required Skills

【Required】
・Bachelor's degree or higher in computer science, robotics, mechanical engineering, electrical engineering, or related field
・2+ years of experience as a software engineer in a team development environment
・Ability to develop in C++ or Python with a large code base
・Excellent communication skills with the ability to work in a team environment in a dynamic environment
・Certain level of English proficiency

【Preferred】
・Practical experience in the robotics industry, automotive automation industry, or any field related to hydraulics control
・Experience in motion planning, trajectory optimization, control theory, state estimation, optimal control, or machine learning
・Experience in programming for computational efficiency, maintainability, and system safety
・Experience and understanding of ROS2 or ROS development
・Experience contributing to academic papers, patents, or OSS
・Experience with certification processes for automated control systems in the automotive or aerospace industry
・Understanding of Agile and Scrum development
・Certain level of Japanese language proficiency

【Ideal Applicants】
・Adapt to a dynamic environment, learn new techniques and skills quickly, and prioritize tasks appropriately
・Able to identify problems, develop efficient solutions, and understand the impact of complex system changes
・Able to persevere and produce output in challenging situations
・Able to identify business needs and devise creative improvements and solutions
・Able to actively intervene in team decision-making and take strong ownership of tasks even when there is disagreement
・Able to foster a positive work environment with transparency.

Company Description