



PR/094669 | Research Engineer

Job Information

Recruiter

JAC Recruitment Singapore

Job ID

1515299

Industry

Civil Engineering and Construction

Job Type

Permanent Full-time

Location

Singapore

Salary

Negotiable, based on experience

Refreshed

March 25th, 2025 12:01

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Business Level

Minimum Japanese Level

Business Level

Minimum Education Level

Associate Degree/Diploma

Visa Status

No permission to work in Japan required

Job Description

About the job

The Research Engineer will work under the Senior Researcher on a collaborative research project with a university in Singapore. In this project, the Research Engineer will be involved in the development of a robotics- related platform and will also conduct tests by bringing the robot to construction sites and handling on-site debugging.

Job Responsibilities:

Contributing to the development of robotics-related platforms, ensuring alignment with project goals and specifications.

Creating comprehensive test cases to evaluate platforms functionality and performance.

Conducting acceptance testing of programs developed by the university to ensure they meet project specifications and standards.

Assessing the compatibility of robotics-related platforms with construction robots in the market to ensure smooth integration

and operational efficiency.

Developing and testing the adapter for industrial construction robots leveraging open-RMF

Conducting field tests by deploying robots and the platform at construction sites to evaluate performance and functionality.

Performing on-site debugging and troubleshooting to address any issues that arise during testing.

Documenting research findings and contributing to project reports and presentations.

Defining and managing the detailed project specifications and requirements.

Assisting in the planning and execution of robotics-related events, including support for coordination, logistics, and on-site management.

Supporting for the formulation of strategies for the commercialization of research results and business initiatives in the field of construction robotics.

Other related tasks as required by job role.

Minimum Qualification:

Master's degree in Robotics, Mechanical Engineering, or Electrical Engineering related field.

2-5 years work experience

Knowledge/Skills/Abilities:

Experience with Ubuntu, docker, ROS2

Coding in C++, Python

Project management experience

Coding in JavaScript, TypeScript

Experience with Gazebo/Isaac Sim

Knowledge in data base / edge computing / front-end

Construction industry experience

BIM tools

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Company Description