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AI Engineer (Autonomous flying drone)

In-house Products/Hybrid Work

Job Information

Recruiter
G Talent at Bizmates, Inc.

Hiring Company
✳Drone Development✳

Job ID
1545540

Industry
Internet, Web Services

Job Type
Permanent Full-time

Location
Chiba Prefecture

Salary
6 million yen ~ 10 million yen

Work Hours
Discretionary Work System

Refreshed
July 8th, 2025 00:00

General Requirements

Minimum Experience Level
Over 3 years

Career Level
Mid Career

Minimum English Level
None

Minimum Japanese Level
Business Level

Minimum Education Level
High-School

Visa Status
No permission to work in Japan required

Job Description

【 About the company 】

▼About the Company
Established in 2016, the company develops small drones specialized in the indoor inspection field and provides inspection solutions. In the field of indoor industrial drones, which are considered more difficult to implement in terms of space and communication than outdoor drones, the company is growing rapidly by leveraging its advanced technological capabilities and providing integrated solutions that include the analysis of captured images.

1. Small drone designed and developed in-house

There are many narrow, dark, and dirty places where it is difficult for ordinary industrial drones to even enter to inspect infrastructure and other facilities. For several years, the company has specialized in research and development of small drones that can be used in such environments.

While weight and size are restricted to achieve miniaturization, the company develops not only the frame, but also the battery, propeller, motor, camera, and flight controller, which is the brain of the aircraft, in-house, so that it can flexibly respond to the challenges of each company.

Based on the philosophy of contributing to improved productivity and safety in the industrial world, the company verifies each technology and structure in detail, aiming to manufacture products that can withstand industrial applications.

2. Domestically manufactured drones
The company's drones are domestically produced drones manufactured in Japan. Currently, Chinese-made drones are far ahead in the drone market, both in terms of technology and production volume, and the company is committed to domestically produced drones in order to raise Japan's technological capabilities.

In September 2020, the government announced its intention to promote the use of drones with high security performance and the use of drones by companies with well-developed security systems, and similar moves are being seen in some private companies. The demand for domestic drone manufacturers is expected to further increase in the future, and the Company is already being evaluated and used by a major manufacturing company that is promoting the use of domestic manufacturers.

3. Providing consistent services that do not end with inspection but extend to video analysis and editing
The company also focuses on technologies for editing drone-captured images into 3D, point clouds, and panoramic (ortho) images, as well as technologies that utilize artificial intelligence (AI,) and its strength is its ability to provide solutions that combine the hardware technology of drone aircraft with the software technology of image analysis and editing.

In the future, the company is also looking to develop services that promote the centralized management of digital data collected by drones to support DX in the manufacturing industry.

▼ Mission
Creating a safe society for all

▼ Vision (2030)
Visualizing Invisible Risks

【 Job Description & Requirements 】

■Overview
You will be involved in the development of an abnormality detection system for the drone itself, an AI system that automatically identifies images captured by the drone, and a big data system for the future.

Algorithm development for detecting equipment anomalies (cracks, leaks, etc.) and specific objects based on images captured by drones
Development of algorithms for data analysis and AI analysis of infrastructure equipment data
Algorithm development for diagnosing aircraft abnormalities based on log data (motor speed and acceleration sensor) during drone flight

■Attractiveness of this position / Career path
This is a unique position where you will be involved in the development of new drone technology that no other company in the AI domain has.
You will be a core member of our data business, which we will focus on in the future using data from narrow spaces that can only be captured by drones.
You will be able to gain experience as a specialist in a field that you would not normally be involved in, such as data from infrastructure facilities, which is technically difficult to detect anomalies.
In addition to developing algorithms, you will also be able to work as a data scientist handling large volumes of data.

【 Working conditions 】

・Annual holidays: 125 days
・Holiday/vacation type：Two days off per week (Saturdays, Sundays, and national holidays)
・Annual paid leave: 10 days (the minimum number of days is the number of days granted after six months of employment)
・Summer vacation, year-end and New Year vacations, congratulation or condolence leave
*In accordance with the company calendar

Incentive: Stock option plan

Up to 30,000 yen per month

Depends on the company's regulations

Full coverage of social insurance

Attire: office casual
Lunch talk system (company pays for lunch communication once a month)

Required Skills

■Required
3+ years of programming (any language)
Experience in Python implementation At least 1 year in practice
Experience using machine learning frameworks and libraries (PyTorch, Tensorflow, Keras, scikit-learn, etc.) *Candidate may also include university and graduate school studies and research as experience

■Preferred
Experience in software specification and structural design
Research and development of anomaly detection algorithms
Experience in image processing
Experience in time series data processing
Experience in point cloud data processing

Company Description