CareerCross by JAC Recruitment

Data Scientist / IoT Sensor Data and Water Quality Analysis

Flextime & Hybrid Work★In-house Service

Job Information

Recruiter
G Talent at Bizmates, Inc.

Hiring Company
‡Small-Scale Decentralized Water Circulation System Development

Job ID
1556885

Industry
Internet, Web Services

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards, Shibuya-ku

Salary
6 million yen ~ 11 million yen

Work Hours
Flextime System

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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
High-School

Visa Status
No permission to work in Japan required

Job Description

【About the Company】

Development of Small-Scale Decentralized Water Circulation Systems
Development of Autonomous Control Systems for Water Treatment

【Job Description】

As a data scientist, you will be responsible for the following tasks based on IoT sensor data and water quality analysis data:

・Performance evaluation and abnormality detection by analyzing operating data of water treatment equipment
・Development of quality estimation model based on water quality data (sensor + lab analysis)
・Development of predictive maintenance models to optimize equipment maintenance
・Design of reclaimed water usage trend and demand forecasting model
・Design and build data pipelines and dashboards (AWS, Redash)
・Collaboration with engineering and manufacturing teams to propose improvements to equipment control algorithms

■Recruitment Background
The company has been developing water infrastructure independent of public water and sewage systems with the mission of "fundamentally solving water issues by transforming humanity's resource utilization into a circular economy." In addition to deployments at disaster sites and water-scarce regions both domestically and internationally, overseas expansion has become full-scale in recent years, attracting global attention (including participation in COP28 and receiving the Earthshot Prize).

Currently, the company is in a post-Series C growth phase, aiming for further non-linear evolution while envisioning an IPO. The core of this endeavor lies in the presence of colleagues who act autonomously and can take on challenging issues. With an organization of around 100 people, under the organizational philosophy of "Hyakunin Keiei" (hundred-person management), where each individual acts proactively and enjoys challenges, the company is seeking the next colleagues to spread "water freedom" to the world.

■The Company's Potential
Global Leadership
└ The company's products are attracting global attention as a technology that can revolutionize disaster response and infrastructure development in regions with delayed infrastructure. With high evaluations in overseas markets, including participation in COP28 and receiving "the most prestigious environmental prize in history," the Earthshot Prize founded by Prince William, it holds the potential to spread a sustainable water circulation model worldwide.

Socially Significant Technology
└ The technology to streamline water circulation and reduce wastewater is a crucial key to overcoming climate change and water resource issues. You can be involved in a highly socially significant business that supports the creation of a society where people can enjoy "water freedom," and we pride ourselves on the many rewarding and fulfilling opportunities that will arise in the business growth phase from Series C onwards, aiming for IPO in the future.

Organizational Structure Where Each Individual Can Demonstrate Autonomy
└ Despite being a manufacturing company, it brings together a diverse group of around 100 talented individuals and embraces "Hyakunin Keiei" (hundred-person management) as its organizational philosophy, where the entire organization evolves through serious challenges. It values "high purity of talent" to enable "serious play," creating an "environment that boldly encourages challenges" based on the idea of "responsibility and growth," and cherishes "personnel that faces the existential reality of each individual" based on "human love," rather than just uniform personnel evaluations.

【Working conditions & treatment】

Flextime System

・Full social insurance
・Commuting allowance

・Saturday/Sunday/National Holiday
・Annual Paid Leave
・New Year Holiday)

Required Skills

Required
・Experience in data analysis and machine learning using Python/R, etc.
・Experience in time series data analysis
・Experience in preprocessing and modeling of IoT/sensor data
・Data extraction and processing skills using SQL
・Basic understanding of mechanical, electrical, and water treatment equipment (any field is welcome)

Preferred
・Knowledge of water treatment, water analysis, and environmental engineering
・Experience with AWS and Treasure data
・Experience in building MLOps and data pipelines
・Experience working with embedded engineers and product development departments
・Experience in municipal or social infrastructure projects
・English conversation skills, or Japanese language skills for non-Japanese (N2 or above recommended)

Ideal Applicants
・Strong interest in solving social issues
・Able to identify and act on issues on their own, even in highly uncertain environments
・Able to bridge the gap between the field, real objects (hardware) and data
・Communication skills to collaborate with members from diverse backgrounds

Company Description