[AgriTech, Satellite x AI] Senior Research Scientist

Global team, Flex work,new grads welcome

Job Information

Recruiter
United World Inc

Job ID
1538798

Industry
Other (IT, Internet, Gaming)

Company Type
Small/Medium Company (300 employees or less)

Non-Japanese Ratio
About half Japanese

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
8 million yen ~ 15 million yen

Refreshed
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General Requirements

Career Level
Entry Level

Minimum English Level
Business Level (Amount Used: English usage about 75%)

Minimum Japanese Level
Basic

Minimum Education Level
Post Grad Degree (PHD/MBA etc)

Visa Status
Permission to work in Japan required

Job Description

This is an AgriTech startup aiming to solve agricultural and environmental challenges by combining satellite data (SATELLITE), machine learning (AI), and land parceling technology (GRID).

By providing innovative solutions that support the efficient management and utilization of farmland, they strive to enhance agricultural productivity and improve the quality of life for farmers not only in Japan but around the world. At the same time, they are also addressing global issues such as food security and climate change.

Currently, they have local subsidiaries in India and Singapore, and they are expanding their business into emerging markets across diverse regions, including Thailand, India, and Kenya.

[Back ground of recruiting]

This company is advancing to the next step in its business journey.
To support their business expansion, they are strengthening their Engineering team and are seeking a Senior Research Scientist who can leverage their technical skills and creativity to tackle diverse and impactful challenges without being restricted by specific roles.

Mission of the Position

♦ Collaborate with overseas teams to develop models necessary for carbon credits and MRV.

♦ Mentor and nurture research scientist, fostering the next-generation senior research scientist.

Job Description

The role involves developing and calibrating process-based models to evaluate soil carbon sequestration and greenhouse gas emissions in developing countries for the purposes of carbon credits and MRV. Publishing peer-reviewed papers is also one of the integral parts of the job. As a mentor, you will guide research scientists and data scientists in their research and development projects.

♦ Specific Job Responsibilities

・Collaborate with research scientists and data scientists to develop and publish process-based models and machine learning models that contribute to estimate soil carbon sequestration and GHG emissions.

・Design new PoC projects in collaboration with the CRO.

♦ Their Development Environment

They already have multiple products with significant growth potential, and the scope of development themes is broad. Even in unfamiliar areas, you can take on challenges if you are motivated.

＜Technologies＞

Languages: TypeScript / Python / Rust

Architecture: Redux / Atomic Design

Libraries/Frameworks: React.js / Next.js / Django REST framework

DB: PostgreSQL (PostGIS)

Infrastructure: AWS (EC2 / EKS / S3 / RDS, etc.)

Version Control: Git Repository

Management: GitHub

Communication Tools: Slack / Zoom / Discord / Google meet

Culture

♦ About the Department

Department: Engineering Dept.

Members: 11 full-time employees

Supervisor: CRO Tanaka

♦ Department Culture

It is a private company, but we offer an environment where you can engage in research activities alongside your duties. You can continue your career in writing papers, attending conferences, and participating in academic societies. Depending on your achievements and suitability, we can consider arrangements where you remain affiliated with a university or research institution while working at Sagri (such as contracting or joint research). We welcome individuals who wish to build their careers in academia or research institutions in the future.
#Scope of Assignment Changes
Immediately after hiring: according to job listing
Scope of changes: Possible reassignment to all tasks (including temporary transfers)

Required Skills

[Requirements]
・Ability to simulate soil carbon sequestration and greenhouse gas emissions.
・Proven track record in research using mathematical modeling, statistical analysis, and machine learning.
・Proficiency in English (communication with the overseas business division and reviewing/writing academic papers are part of the job).

[Preferred Experience/Skills]
・Holding a PhD.

[Who They Want to Work With]
・ Shares their vision, mission, and values.
・ Proactively collaborates with universities and research institutions.
・ Challenges themselves to develop future-oriented products that solve social issues.
・ Expands their work scope beyond their specialty and continuously catches up with new technologies.
・ Values team communication and information sharing, with a high willingness to learn new skills.
・ Listens sincerely to customer feedback and responds proactively.
・ Enjoys working in a fast-paced environment and embraces significant changes.

Company Description