



## [AgriTech, Satellite x AI] Senior Remote Sensing Engineer

**Global team, Flex&remote work available!**

### Job Information

**Recruiter**

United World Inc

**Job ID**

1534445

**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**

4 million yen ~ 9 million yen

**Refreshed**

April 22nd, 2025 14:53

### General Requirements

**Minimum Experience Level**

Over 3 years

**Career Level**

Mid Career

**Minimum English Level**

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

**Minimum Japanese Level**

Basic

**Minimum Education Level**

Bachelor's Degree

**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]

They are seeking a highly skilled and experienced Remote Sensing Engineer to lead the development and implementation of their remote sensing solutions for our MRV (Measure, Report, and Verify) decarbonization platform.

In this role, you will be at the forefront of our efforts to utilize satellite imagery and remote sensing technologies to promote sustainable farming practices, reduce carbon emissions, and enhance the accuracy of our agricultural monitoring systems.

## # Responsibilities:

- Lead the design, development, and deployment of remote sensing systems and methodologies for the MRV decarbonization platform.
- Work closely with engineering and operations teams to understand requirements and translate them into effective mapping and visualization solutions.
- Develop algorithms and models to analyze satellite imagery and other remote sensing data for agricultural monitoring and carbon measurement.
- Create interactive and visually engaging maps and visualizations to illustrate agricultural activities and carbon emissions. Utilize GIS tools and techniques to generate accurate and detailed maps, integrating real-time data for dynamic representation.
- Ensure remote sensing processes and outputs' accuracy, reliability, and scalability.
- Provide technical leadership and mentorship to junior remote sensing engineers and other team members.
- Work closely with domain experts, such as soil scientists and carbon market specialists, to ensure the integrity and applicability of remote sensing data.
- Develop and implement best remote sensing data acquisition, processing, and analysis practices.
- Communicate complex remote sensing concepts and findings to internal and external stakeholders effectively.

## # Their Tech Stack:

Languages: Python, JavaScript, R

Satellites: Active / Passive / Multispectral / Hyperspectral - S1, S2, Landsat, Modis etc.

Satellite Data Platforms: Sentinel Hub, Google Earth Engine etc.

Data Processing Libraries: GDAL, Rasterio etc.

Mapping libraries: Mapbox, Leaflet etc.

Cloud: AWS

Version Control: Git, GitHub

Project Management: JIRA

Communication Tools: Slack, Notion

This company is an equal-opportunity employer that values diversity in all its forms.

They encourage candidates from all backgrounds to apply and help them cultivate a more inclusive and sustainable future.

To apply, please submit your resume and a cover letter explaining why you're excited about this role and how your experience aligns with our requirements.

## #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]

- Bachelor's degree or Master's in Remote Sensing, Geospatial Science, Environmental Science, Computer Science, or a related field.
- 5+ years of experience in remote sensing, with a proven track record of leading remote sensing projects related to agriculture or climate.
- Strong expertise in satellite (Active / Passive - S1, S2, Landsat, Modis etc.) imagery analysis, satellite data platforms (e.g., Sentinel Hub, Google Earth Engine) and data processing libraries (e.g., GDAL, Rasterio).
- Proficiency in Python, R, or JavaScript for remote sensing data processing, and familiarity with GIS software such as QGIS or ArcGIS.
- Extensive knowledge of GIS principles, mapping libraries (e.g., Mapbox, Leaflet), and data visualization tools (e.g., D3.js, Tableau).
- Strong understanding of multispectral and hyperspectral analysis for vegetation, soil health, and water management applications.
- Strong software engineering practices and a background in Python programming, debugging/profiling, version control, and system design.
- Experience with APIs and integrating data from various sources.
- Hands-on experience with at least one cloud provider, such as GCP, AWS, or Azure.
- Familiarity with machine learning techniques and their application to remote sensing data.
- Strong problem-solving skills and the ability to develop innovative solutions for complex challenges.
- Excellent communication and leadership skills, with the ability to work collaboratively in a cross-functional team environment.
- Passion for sustainability, agriculture, and leveraging technology to drive positive environmental and social impact.

## [Who They Want to Work With ]

- Resonate with their vision, mission, and values
- Have the desire to solve societal issues through software engineering
- Value team communication and information sharing, highly motivated to learn and acquire new skills
- Keen on listening to customer feedback and responding earnestly
- Enjoy working in a fast-paced environment, embracing significant changes.

At the company, you will have the unique opportunity to shape the future of agriculture and contribute to the fight against climate change. You will be at the forefront of developing cutting-edge solutions that impact sustainability and food security.

They offer:

- A dynamic and supportive work environment
- Competitive compensation package
- Opportunity for rapid career growth in a fast-expanding startup
- Chance to work with state-of-the-art technologies in AI, remote sensing, and data analytics
- Collaboration with a diverse, talented, and mission-driven team
- The satisfaction of knowing your work is making a positive difference in the world.
- They want to hear from you if you are passionate about leveraging technology to drive sustainable agriculture and combat climate change. Join them in their mission to create a more sustainable and resilient agricultural ecosystem for generations.

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## Company Description