

Basic Information:

- Date: 1/13/2025
- Position: **Image Processing Engineer**
- Location: Tokyo
- Salary: ¥6,000,000 - ¥9,000,000 JPY
- Language: English (Business)
- Contract type: Permanent

Job Details:

- Position: **Image Processing Engineer**
- Location: Tokyo(Hybrid)
- Japanese Language: Basic Japanese
- English Language: English (Business)
- Seniority Level: Mid-Level
- Min Salary: ¥6,000,000
- Max-Salary: ¥9,000,000
- Category: AI/ML

Skill:

- Python
- C++
- C
- Rust
- Git

Roles and Responsibilities:

Responsibility

- Develop tools and algorithms for processing, analyzing, and formatting SAR images
- Design and implement new features for our data processing pipeline (from RAW radar pulses, to SLC and ground detected products) to enhance efficiency and functionality
- Create and maintain tests to ensure the reliability and quality of delivered products

- Investigate and resolve issues related to the data processing pipeline, providing support in triaging and troubleshooting
- Benchmarking and optimization of existing implementations
- Collaborate with cross-functional teams to integrate new features within our larger system architecture

Details of work

- Build and deploy tools and algorithms for processing, analyzing and formatting images
- Create, maintain and optimize our processing pipelines and data storage

Selling points of this role

- Cross-functional collaboration: Work alongside experts from various disciplines such as aerospace engineering, radar engineering, digital signal processing, software engineering, among others.
- Tackle challenging problems, such as dealing with very large image files (sometimes over tens of gigabytes) while ensuring timely data product creation.
- Get hands on experience on working with cloud platforms
- Participate in the stage of scaling our system from a few to dozens of satellites in space
- Work with a modern technical stack and development tools:
 - Python 3.11: poetry, mypy, flake8, pyright
 - C++20: CMake, conan
 - Rust: With pyO3 for python integration

Minimum Requirements:

- Background in image and signal processing and computer vision
- Experience in C, C++ or Rust
- Shell and Python scripting
- Knowing development tools like Git, linters and debuggers
- Experience with software testing (unit testing, integration testing, system testing)
- Can commute to our office in Tokyo some days a week. This is a hybrid role.
- Good verbal and written English

Preferred Requirements:

- Familiarity with Geographic Information Systems (GIS) tools and methodologies
- Experience with SIMD, CUDA, OpenMP or other parallelization technologies
- Experience working with large image or video datasets
- Excellent project portfolio
- Experience working with satellites or space systems
- Familiar with ideally Google Cloud Platform or other clouds

- Japanese language skills
- You have worked in a startup before

Conditions :

- **Employment system:** Permanent
- **Location:** Kiyosumi Shirakawa, Tokyo
- Annual Salary: 6,000,000 - 9,000,000 JPY
 - Based on experience, ability, and previous work experience
 - Personnel evaluation system every 6 months
- Working Hours: Flextime system
 - Core time from 11:00 - 15:00
 - 2 days off a week (weekends) including Japanese public holidays
 - 10 days of paid time leave granted first year with an increment of 1 day every following year (ex. 11 days in the second year) up to a maximum in accordance with Japan's labor laws.

Probation: 3 months

Benefits :

- Language learning support (Up to 30,000 yen /month)
- Employee stock option
- Job-related learning expenses covered
- Side business allowed
- Social insurance and annual medical check
- Maternity and childcare leave
- No dress code
- No smoking on the premises (outdoor or indoor smoking areas available)

Interview Process:

- Application Screening
- 1st Interview
- 2nd Interview
- 3rd Interview

- Offer

This process is subject to change.

All interviews will be conducted in Japanese and a Japanese resume is required. When applying, please submit your resume (with a photo) and a detailed work history document. Reference checks may be conducted as needed. This process is subject to change.

How to Apply: Send Your resume this mail: info@matservicesbd.com

