

Junior Radar Engineer

Job ID	2346
Contract Type	Permanent
Location	Tokyo
Apply from	Overseas OK (Relocate to Japan)
Work type	Hybrid
Japanese Level	Not required
English Level	Business
Salary	Yearly JPY 5.0 M to JPY 8.0 M
Skills	Python, Matlab, Git, Linux
About the company	<p>Synthetic Data for Perspective</p> <p>We provide one-stop solutions, using geospatial data from its own SAR satellites in line with its mission to create a progressive world based on real data. We are building a constellation of our own small SAR satellites to provide data and analytic information to governments and commercial entities.</p> <p>We are the only company in the world with the capabilities to both develop and operate its own satellites and provide analytics solutions. We offer subscription-based solutions and new solution development with collaborative prototyping:</p> <ul style="list-style-type: none"> - Infrastructure development - Energy and natural resources development - Disaster risk management <p>We have already successfully launched two satellites, and are aiming to launch six satellites by 2023 and a constellation of 30 satellites around 2026. According to our calculations, if we can operate 30 small SAR satellites, we will be able to acquire and analyze local ground data within two hours of a disaster anywhere in the world, and provide information that will contribute to decision-making in disaster response. Even if an earthquake, flood or other disaster occurs during the nighttime and it is difficult for people to enter the area, we will be able to quickly observe and confirm the situation.</p> <p>Our CREDO</p> <ul style="list-style-type: none"> - Synergy of Spirit: We embark on this journey together, bringing with us our combined experiences and life. As a team, we recognize that the team's goals are also personal goals, and personal goals are the team's goals. We each share a part of the responsibility to succeed. - Synthesis of Knowledge: We try to create new value under conditions that have huge uncertainty and volatility. The only way for us to succeed is to progress through trial and error that we learn from and make changes based on our new knowledge. - Synched with the Future: We have an obligation to create a sustainable future for the next generations. To do so, we must tackle tough challenges as pioneers, leaving our comfort zones that prevent our growth.
Roles and Responsibility	We are building a constellation of SAR satellites that will produce hundreds of images of the Earth everyday. We are looking for a radar engineer to develop, implement and evaluate various algorithms for radar data processing, calibration and image quality assurance.

	<p>Responsibility</p> <p>Developing algorithms at we require making effective use of the theoretical concepts acquired during your academic training. Balancing practical considerations and creativity is also important as several datasets are generated daily and they shape the evolution of the algorithm itself. Such an effort is integrated in a highly cooperative environment where different fields of expertise are available; receiving effective support is as expected as sharing your knowledge with others. As an example, a theoretically sound algorithm can be significantly sped up thanks to the support of software engineers; also, the effectiveness of an algorithm can be tested on specific acquisitions planned together with the satellite operation's team.</p> <p>Details of work</p> <ul style="list-style-type: none"> - Analyzing the quality of SAR images - Developing algorithms and software for processing and analyzing SAR images - Contributing to designing, reviewing and system engineering of future systems <p>Selling points of this role</p> <ul style="list-style-type: none"> - Develop advanced signal processing routines that can deal with large, multi-gigabyte datasets - Learn about space borne SAR at one of the few companies active in this area - Collaborate with engineers with diverse specialties (satellite engineering, signal and image processing, data science, machine learning, ...)
<p>Minimum Qualification</p>	<ul style="list-style-type: none"> • Knowledge of digital signal processing • Bachelor's degree in Electrical Engineering or Physics • Experience in one programming language (such as Python or Matlab) • Good verbal and written English
<p>Preferred Qualification</p>	<ul style="list-style-type: none"> • Experience in radar astronomy, automotive, aviation, or weather radar • Master's degree in Physics or Electrical Engineering or equivalent work experience • Experience with SAR or InSAR • Experience in working with large datasets • Basic knowledge of Git, Linux and cloud-computing providers such as GCP • Basic knowledge in software engineering (unit testing, continuous integration, ...) • Verbal and written Japanese language skill
<p>Conditions/ Benefits</p>	<p>Employment system: Permanent</p> <p>Location: Kiyosumi Shirakawa, Tokyo</p> <p>Annual Salary: 5M ~ 8M JPY</p> <ul style="list-style-type: none"> • Based on experience, ability, and previous work experience • Personnel evaluation system every 6 months <p>Hours: Flextime system</p> <ul style="list-style-type: none"> • 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. <p>Probation: 3 months</p> <p>Benefits:</p> <ul style="list-style-type: none"> • Language learning support (Up to 30,000 yen /month) • Employee stock option • Job-related learning expenses covered

	<ul style="list-style-type: none"> • 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	<ol style="list-style-type: none"> 1. Application Screening 2. 1st Interview 3. 2nd Interview 4. 3rd Interview 5. Offer <p>※ This process is subject to change.</p>
How to Apply	Please send your resume and a cover letter detailing why you believe you are a strong fit for this position to asif.matservices@gmail.com

LinkedIn.com/Company/MATServicesBD/