

SAR Image Processing Engineer

株式会社Synspectiveでの募集です。 IT系プロジェクトマネージャーの…

Job Information

Recruiter
JAC Recruitment Co., Ltd.

Hiring Company
株式会社Synspective

Job ID
1622785

Industry
Machinery

Job Type
Permanent Full-time

Location
Tokyo - 23 Wards

Salary
5.5 million yen ~ 9 million yen

Work Hours
09:00 ~ 18:00

Holidays
【有給休暇】有給休暇は入社時から付与されます 入社時点で5日付与されます。 ※入社初年度は入社月によって付与数が変動し、最大1…

Refreshed
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General Requirements

Career Level
Mid Career

Minimum English Level
Fluent Level

Minimum Japanese Level
Native Level

Minimum Education Level
High-School

Visa Status
Permission to work in Japan required

Job Description

【求人No NJB2425462】
■担当業務
This is a hands on production focused engineering role rather than a research position. You'll need a genuine SAR foundation but your impact will come from system and pipeline engineering: integrating the processing algorithms hardening them and scaling across all acquisition modes and product types.

If you have a SAR/research background and want to move toward production and systems work you'll fit well with us. If you've moved into research management or adjacent roles and want to return to hands on SAR engineering you're welcome too. If your goal is to stay in pure algorithm research this role is not a good fit for you.

While knowledge of SAR principles is essential the primary output is production grade software and system architecture. As a radar engineer in our unit you will work with radar data processing and image analysis for large datasets while contributing to the design and development of future satellites' radar systems.

■具体的な業務内容_Details of work
・Own and evolve the architecture of the SAR image processing pipeline
・Integrate and productionize SAR processing algorithms across acquisition modes and product types
・Investigate SAR image and processing issues relating signal level behavior（Doppler geometry focusing）to satellite and acquisition behavior
・Contribute to the end to end development of new SAR data products to expand our commercial offerings.
・Develop and automate tooling to analyze troubleshoot and verify products
・Collaborate with the design of a continuously growing ground system to include new operational modes
・Provide feedback on the system engineering of future satellites' radar systems

■仕事の魅力_Selling points of this role
・Work hands on with spaceborne SAR with advanced processing technology at one of the leading companies in this field with full access to real sensor data and the complete signal chain.
・Act as the bridge between algorithm development satellite development and production
・Collaborate with engineers with diverse specialities（satellite engineering signal and image processing data science machine learning …）.
・Participate in our "Shift Left" quality roadmap by designing and implementing automated E2E testing frameworks for satellite product validation
・International English working environment in Tokyo

Required Skills

■必須要件_Essential qualifications
・Bachelor's or Master's in Electrical Engineering Telecommunications Remote Sensing Physics or a related field
・You've owned a piece of a production system or processing pipeline end to end. Typically 3+ years in signal/image processing radar or a related software heavy domain
・Solid grasp of SAR fundamentals: image formation acquisition modes and the SAR processing chain or closely transferable coherent / aperture synthesis imaging experience（radar array processing ultrasound seismic）
・Solid foundation in digital signal or image processing
・Ability to write maintainable code in teams（not just scripting）in at least one language used for scientific/production work（e.g. Python C++ Rust）
・Good verbal and written English
・Can work in office in Tokyo

■To stand out
・Experience with spaceborne or airborne SAR data specifically
・Experience in Python and Rust
・Familiarity with SAR calibration geometric/radiometric accuracy or image quality assessment
・Experience in satellite or remote sensing industry
・Good verbal and written Japanese

Company Description

Synspectiveは、自社によるSAR衛星コンステレーションを持つソリューションプロバイダーです。小型SAR衛星の開発・運用からコンステレーションを構築しデータを生成し提供しています。また独自のデータ解析能力を用いて世界が抱える様々な課題に対して、データに基づいたソリューションを提供しています。Synspectiveの主な事業内容は、小型SAR衛星と関連システムの開発・製造・打上を通じた衛星コンステレーションの運用と、その取得データの販売、そしてデータ解析ソリューションの開発・販売です。