

Job Title:

Remote Sensing Scientist

Job Location:

Seattle, WA; St. Louis, MO; Remote

Company Overview:

HabiTerre is an advanced science and technology company dedicated to delivering actionable insights and digital infrastructure to support and sustain the future of food and agriculture. We envision a world where a resilient food system, environmental stewardship, and on-farm profitability are harmonized to ensure the sustainability of every farm field on our planet.

Leadership and Cultural Expectations:

At HabiTerre, we hold ourselves to high standards of leadership and cultural values. We expect all team members to embody the following principles:

- Be authentic and tell your truth: Embrace transparency and honesty in all communications and interactions.
- Persevere: Demonstrate resilience and determination in the face of challenges, pushing through obstacles to achieve our goals.
- Lean in and do the right thing, even when it is hard: Act with integrity and ethical conduct, making decisions that prioritize the greater good.
- Choose excellence; be your best, keep improving, exceed expectations: Strive for excellence in everything you do, continuously seeking opportunities for growth and development.
- Exercise confident humility: Approach your work with confidence tempered by humility, recognizing the value of diverse perspectives and the importance of lifelong learning.

Work Environment:

We are an equal opportunity employer with a team across the country. We offer a workplace that is both casual and professional, and a culture that is committed to learning, fun, and excellence. Our team consists of people who are passionate about creating insight-rich customer experiences while simultaneously obsessing over performance, reliability, and scientific rigor of what we build. We challenge the status quo and strive towards finding the best way to solve problems.

The successful candidate will join our product team, which collaborates with a group of leading scientists and engineers specializing in earth system modeling, remote sensing, software engineering and artificial intelligence. We work in small collaborative groups to keep things simple and efficient, resulting in autonomy for our staff members to perform the work required and be creative.

Job Description:

As a Remote Sensing Scientist at HabiTerre, you will play a pivotal role in developing large-scale remote sensing pipelines and implementing robust data processing solutions on advanced cloud computing platforms. Through your work, you will have a direct impact on the company's technological advancements and its ability to solve real-world problems in agriculture, enhancing food security and environmental sustainability.

Responsibilities:

- Develop, execute and maintain large-scale remote sensing pipelines for agricultural monitoring to ensure high efficiency and accuracy.
- Collect, process, validate and maintain analysis-ready remote sensing data products, ensuring seamless integration with downstream applications.
- Effectively communicate scientific results and insights to stakeholders, adapting explanations to suit diverse audiences.
- Collaborate with cross-functional teams to transition projects from research and/or functional business requirements to product deployment, ensuring technical feasibility and alignment with business goals.
- Document methodologies, workflows, and results comprehensively, ensuring reproducibility and adherence to industry standards.
- Write clean, efficient, and well-documented code that adheres to industry standards.
- Actively participate in code reviews, providing constructive feedback to peers to foster a collaborative and quality-focused development environment.
- Provide necessary support to the company's intellectual property counsel.

Basic Qualifications:

- Masters degree in Earth Science, Geography, Remote Sensing/Geospatial Science, Computer Science or related field, or equivalent experience in a related technical field.
- 2+ Years experience of implementing large-scale data processing on cloud computing platforms such as AWS, Azure and GCP.
- 4+ Years experience in satellite remote sensing and geospatial big data processing.
- 4+ Years hands-on experience in Python development, scientific data visualization and analysis.
- Knowledge of acquisition, management, interpretation, and exploitation of remote sensing data including spaceborne, airborne, and UAV data and imagery.
- In-depth technical knowledge and skills including geo-database design and spatial relationships.
- Proficiency with Linux/UNIX and Shell scripting and high-performance computing.
- Demonstrated ability in DevOps, including unit testing, CI/CD practices, and production support.
- Possession of excellent oral and written technical communication skills.
- Ability to work collaboratively within a team environment.

Preferred Qualifications:

- PhD degree in Earth Science, Geography, Remote Sensing/Geospatial Science, Computer Science or related field, or equivalent experience in a related technical field.
- Proven experience in applying machine learning and deep learning techniques to agricultural monitoring using frameworks such as PyTorch, TensorFlow, and Scikit-Learn.
- Experience in process-based earth system models, ecosystem models, and/or biogeochemistry models.
- Experience in model-data fusion methods, such as calibration, data assimilation, etc.
- Experience with parallel computing architectures.
- Proven experience in developing and launching highly scalable and robust products.

Please send CVs to Eugene Losev (eugene.losev@habiterre.com)