



Applied · Geosolutions

Geospatial Data Scientist

Summary

Applied Geosolutions (AGS) is looking for an enthusiastic scientist or engineer with experience in data analysis and image processing algorithms to build applications using Python/C++ to process, disseminate, and visualize geospatial data. The successful candidate will work with the team to develop and implement algorithms and applications that utilize large geospatial datasets for agriculture and forest applications. The position requires interdisciplinary skills to develop a suite of advanced Earth data products for conservation and sustainable land management.

Minimum Experience Requirements

- Degree in applied mathematics, computational science or related field
- Three years scientific programming experience
- Three years of data analysis experience
- Knowledge of geospatial data sources, characteristics, and methods
- Excellent programming skills in Python
- Strong Linux/Unix background
- Strong team experience and capabilities to work with a variety of backgrounds, including programmers, scientists and business staff
- Strong communication skills

Preferred Qualifications

- Experience programming in C/C++
- Experience programming in Javascript
- Experience with open source geospatial libraries, e.g. GDAL, OGR, Fiona, Shapely
- Familiarity with geospatial data formats
- Familiarity with database design and programming
- Experience and interest in natural sciences and geography
- Experience developing applications independently, as well as in a team
- Experience in a business setting or for commercial applications of technology

Contact

Send resume or CV and cover letter describing your interest in the position to:
jobs@appliedgeosolutions.com

87 Packers Falls Road
Durham, NH 03825

55 Main Street, Suite 125
Newmarket, NH 03824



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SAR Remote Sensing Scientist

Summary:

Applied Geosolutions LLC is looking for an enthusiastic scientist or engineer to lead and support SAR science for environmental applications. Role: Lead technical SAR initiatives and support senior leadership in implementation of radar science and serve as technical lead on integrating radar data into decision support tools and agroforestry applications.

Description:

- Lead the creation and application of physics-based retrieval algorithms, Interferometry, and development of scattering models for agricultural and forest mapping applications
- Oversee project tasks and creation of deliverables with clients and senior leadership
- Technical implementation of work flow in Decision support tools for government agencies, end users, and industry
- Lead and support grants, contracts, and growth in geospatial products and services

Technical requirements:

- Advanced degree in electrical engineering, geoscience or remote sensing or related field
- Technical skills with radar remote sensing
- Background in electrical engineering or computer science
- Understanding of SAR theory and applied electromagnetics
- Experience with some combination of Python, C++, ISCE, GAMMA, PolSARPro
- Experience in a Linux environment
- Experience with data analysis and mathematical modeling

Preferred Qualifications

- Three plus years post graduate work experience
- Experience leading research grants preferred, and developing applications independently, as well as within a team
- Some experience in geospatial data handling, GIS, and BigData useful
- Some background in natural science or geography helpful
- Experience and excellence as a team player with strong proactive communication skills
- Experience in a business setting or for commercial applications of technology

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