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US Geological Survey
EROS Data Center
Sioux Falls, SD

TSSC-02-02-11-1414: Associate Calibration/Validation Engineer

Location
So Dakota

Position Type
Full Time

Citizenship Status
Green Card

Clearance Needed
None

Responsibilities:

The Associate Calibration Engineer is responsible for performing operational calibration activities. Calibration operations include one or more of the following using either absolute or relative methodologies: Radiometric assessments of remote sensing digital data; Geometric assessments of remote sensing digital data; or Spatial assessments of remote sensing digital data.

Proposed tasks include:

- Analyze data base trending for assigned processing tasks.
- Process and trend image data to the database using Image Assessment System (IAS) software.
- Create and distribute Landsat 5 and 7 Calibration Parameter Files
- Perform software testing for the IAS and other image processing systems as required.
- Assist in providing solutions to customer related issues with Landsat data.
- Assist with data quality issues by conducting satellite sensor data analysis
- Create data access related scripts including database query scripts
- Assist in Ground Control Point (GCP) chips extraction

Responsibilities:

- Perform work under the direct supervision of project management as well as senior and principle calibration engineers
- Capture calibration trending data
- Monitor and determine temporal trends in calibration
- Perform remote sensing data quality control assessments
- -Participate in calibration software testing, and evaluation activities

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- Perform data trending and analysis routinely, as defined by the project specifications
- Create and publish calibration results routinely, as defined by the project specifications
- Assist in imagery data troubleshooting procedures as needed
- Present calibration status at assigned meetings
- Assist in customer questions as needed
- Provide data quality expertise to sensor anomaly resolution activities
- Contribute to technical status reports concerning status and progress of assigned activities
- May require occasional travel

Requirements:

- Basic knowledge of systems engineering
- Effective written and oral/presentation communication skills
- Ability to work independently as well as part of a team
- Critical thinking
- Analytical performance analysis
- Learn new technologies and tools rapidly
- Effective ability to organize and prioritize tasks
- Experience in one or more programming languages such as C / C++, or data analysis packages such as IDL, Matlab is preferred.

General skills:

- Windows and Unix (Linux)
- MS Office (Word, Excel, PowerPoint)
- Data analysis and understanding of physical measurements
- Statistics

Education & Experience:

Education: BS Required in Engineering, Physics, Geodesy, Photogrammetry or other remote sensing field of study. MS or higher preferred.

Years of Experience: Directly related professional experience is not necessary

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Rajagopalan Rengarajan
Landsat Calibration
Stinger Ghaffarian Technologies (SGT, Inc.)
Contractor to the U.S. Geological Survey (USGS)
Earth Resources Observation and Science (EROS) Center
47914 252nd Street
Sioux Falls, South Dakota 57198
Phone: 605.594.2869
Email: rrengarajan@usgs.gov

(also ajith sampath (purdue grad) at same location)