



STINGER GHAFFARIAN TECHNOLOGIES

Open Position: Calibration/Validation Engineer (Geometry)
Full Time

Requirements: Education: BS Required, MS or higher preferred
Disciplines: Engineering, Physics, Geodesy, Photogrammetry or other remote sensing field of study
Years of Experience: 4 yrs working with aerial imagery and/or sensors is required

Required Skills:

This position requires a strong analytical background in geomatics and basic knowledge of systems engineering practices:

Geomatics

- Knowledge of satellite photogrammetry (sensor models, imaging geometry, line of sight projection)
- Knowledge of geodesy (Earth-fixed and inertial coordinate systems and transformations, horizontal and vertical geodetic reference systems)
- Knowledge of geography/cartography (map projections)

Image and/or Signal Processing

- Knowledge of estimation theory and statistics
- Knowledge of image correlation techniques
- Knowledge of 1D and 2D digital filters

Computer Programming

- Familiarity with C and/or C++ preferred, IDL or MATLAB also helpful
- Experience with relational database management systems

Imaging Instrument Design

- Knowledge of detector operation and sampling
- Knowledge of optics (optical distortion)

Spacecraft Systems and Operations

- Knowledge of orbital mechanics, attitude determination and control, and satellite navigation/GPS
- Familiarity with space to ground telemetry packaging methods (CCSDS protocols)

General Skills

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

Job Description:

Calibration/Validation Engineer will develop algorithm description documents, prototype code and test data that will be necessary for the cal/val toolkit and instrument check-out. The Cal/Val Engineer will also be responsible for providing support for the analysis of the Thermal InfraRed System (TIRS) and Optical Land Imager (OLI) prelaunch data and will be expected to publish results of the characterization studies.

This position will be posted to the career opportunities listing on the SGT website (<http://www.sgt-inc.com>). Please apply on line.

Equal Opportunity Employer M/F/D/V

September 10, 2009