Atmospheric and Environmental Research, Inc. (AER) is seeking motivated individuals to work as part of a team developing complex scientific codes for a next generation meteorological satellite ground system for the GOES-R Program. Successful applicants will interact closely with scientists to design, develop, test and integrate software applications to produce environmental products from satellite instrument data. The position requires both new software development and ability to adapt/extend existing science codes. New development will be done in C++. Existing codes are in C/C++ and FORTRAN 90. The position will require supporting all phases of the software lifecycle including: requirements analysis, design, coding, unit test, I&T, documentation and maintenance. The position will apply AER’s software process standards including configuration control, design control, testing, and auditing.

Candidates with a variety of experience levels are sought. Minimum requirements are a MS or BS degree in the physical sciences, mathematics or computer sciences plus a minimum of 3 years experience in relevant fields (advanced degrees may be substituted for work experience). Demonstrated ability to successfully develop quality scientific codes for science or engineering applications. Strong technical and communication skills, teamwork, problem solving and customer interaction skills in a fast-paced R&D environment.

The following are required:
- C++ programming (>=3 years) experience
- Unix or Linux environment (>=3 years), including shell programming, “make”
- Experience using modern scientific data formats (HDF, netCDF or other)
- Understand the software lifecycle and experience in the use of software process tools including source control
- Demonstrated experience in software development of complex scientific or engineering applications

The following are desired:
- Background in meteorology or remote sensing
- Software design tools: Rational ClearCase/ClearQuest, Eclipse
- IDL/ Matlab/ Python programing experience
- High volume satellite data processing
- High performance computing and code optimization, including experience in multi-threading and multi-processing applications

These positions are open to US citizens and lawful permanent residents of the United States. AER offers a competitive wage and benefit package and is an EEO/AA employer.

Atmospheric and Environmental Research, Inc. (www.aer.com), established in 1977 and headquartered in Lexington, Massachusetts is a wholly-owned subsidiary of ISO, Inc. of Jersey City, NJ. AER is an award winning environmental research and consulting company with demonstrated expertise in remote sensing, radiative transfer modeling, climate modeling, ensemble weather prediction, oceanography, space weather, atmospheric modeling, planetary sciences, and a provider of medium and long range forecasts for the Energy and Financial Markets.

Please apply online at: https://jobs-aer.icims.com/jobs/intro

AER offers a competitive salary and benefits package and is an EEO/AA Employer.
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