

**Universities Space Research Association
Stratospheric Observatory for Infrared Astronomy
Ames Research Center
Moffett Field, California**

**Software Engineer
Job Posting S0710**

Universities Space Research Association (USRA) is inviting applications as a part of the Stratospheric Observatory for Infrared Astronomy (SOFIA) program.

SOFIA is a premier observatory for infrared and submillimeter astronomy. A 747-SP aircraft will carry a 2.5-meter telescope designed to make sensitive infrared measurements on a variety of astronomical objects. It will fly at an altitude up to 45,000 feet. First light is expected in early 2009 and regular observing is expected to begin in 2010. SOFIA is a joint project between NASA and German Aerospace Center, DLR. USRA will operate the SOFIA Science Center at NASA's Ames Research Center for NASA. The aircraft observatory will be based at NASA's Dryden Flight Research Center at Edwards Air Force Base.

USRA is seeking a **Software Engineer** to work in the Information Systems Development (ISD) group on the SOFIA Data Cycle System. The Data Cycle System (DCS) supports numerous aspects of routine science and mission operations for SOFIA including proposal development, observation planning, observation execution on the aircraft, science and mission data archiving, and automatic data reduction. The candidate will support development and maintenance of the DCS for Early Science and sustained operations – including integration and verification of new software components in the Systems Integration Laboratory (SIL), and integration of SOFIA science instruments with the DCS running in the SIL. The successful candidate will have an office at NASA Ames Research Center Moffett Field, CA. with occasional travel to Dryden Flight Research Center during integration and operations.

Qualifications and experience required for this position:

- Bachelor's degree in software engineering, computer science, physics/astronomy, or a related science/engineering field
- Two to five years of experience in science applications or related area
- Minimum of five years object-oriented development experience with C++ and XML in Solaris and/or Linux environments.
- Experience with client-server architectures using CORBA is required (ACE/TAO preferred)
- Background in the full software lifecycle, from requirements analysis to formal system delivery
- Working knowledge in the application of software systems in the execution of scientific research

Compensation for this position is competitive, and based on candidates' experience and expertise.

Applicants should submit a copy of their CV, list of publications, and a description of their research interests, names and contact information of three references.

Please submit your cover letter and resume, with salary requirements, in Word or PDF with your last name and job number as the document title. Please specify in your cover letter if you will require an employer sponsored Visa.

Example Smith S0710at: <http://www.sofia.usra.edu/Employment/employment.html>

E-Mail Resume to: DCSSWE@sofia.usra.edu

USRA is an Equal Opportunity Employer. Applicants selected will be subject to a government security check. USRA performs detailed background investigations on all candidates as a condition of hire.

Position open until filled

POSTED: 11/7/07