Title: Post-Doctoral Research Scientist

Location: Tucson, AZ
Employee Type: Full-Time
Hours Per Week: 40
Overtime: No
Temporary Position: Yes
Position Type: Research Scientist
Job Function: Science or Research Related
Travel: Not Required
Relocation Covered: No
Desired Start Date: May 1, 2015
Salary: DOE
Other Benefits: medical and dental insurance, life insurance, disability and a retirement plan

Post Date: 4/15/2015
Contact Information: PSI Human Resources, Email: hr@psi.edu

Job Description:

The Planetary Science Institute is looking for a Postdoctoral Research Scientist to help in the testing of Stereophotoclinometry in support of the OSIRIS-REx mission. The job will be working with Dr. Gaskell's software called Stereophotoclinometry (SPC). This software will be used during the mission to generate an ultra-high resolution shape model of the asteroid Bennu.

The major work that will be accomplished:
- Developing proficiency in SPC
- Testing and refinement of the techniques to generate shape model
- Determining how both spacecraft position and camera errors propagate into the shape model

Desired skills and knowledge:
- Programming skills, specifically fortran
- An understanding of stereophotoclinometry
- Experience in stereogrammetry
- Understanding and experience with SPICE kernels
- Background in how shape models are created and used in flight missions
- Spacecraft navigation or experience with statistical minimization and/or estimate processes
- Kalman filtering
- Error analysis
- Testing Procedures
- Laser altimetry
Minimum Qualifications:
Ph.D. (BS considered with equivalent experience)
Strong UNIX skills.

Note: Management may assign or reassign duties and responsibilities to this job at any time.

If you are interested in applying for this position and you meet the minimum qualifications for the opening, please submit your cover letter, resume, completed application and Voluntary Self-Identification form to hr@psi.edu. (An application and Voluntary Self-Identification form may be requested from hr@psi.edu.)

Planetary Science Institute
Human Resources
1700 E. Ft. Lowell Rd., Suite 106
Tucson, AZ 85719
Email: hr@psi.edu

PSI is an Equal Opportunity/Affirmative Action Employer

The Planetary Science Institute is a private, nonprofit 501(c)(3) corporation dedicated to solar system exploration. It is headquartered in Tucson, Arizona, where it was founded in 1972. PSI scientist are involved in numerous NASA and international missions, the study of Mars and other planets, the Moon, asteroids, comets, interplanetary dust, impact physics, the origin of the solar system, extra-solar planet formation, dynamics, the rise of life, and other areas of research. They conduct fieldwork in North America, Australia and Africa. They are also actively involved in science education and public outreach through school programs, children's books, popular science books and art. PSI scientists are based in more than 20 states and the District of Columbia, Australia, Canada, Ireland, Latvia, Russia, South Africa, Switzerland and the United Kingdom.

PSI provides an excellent benefits package which includes retirement, medical, dental, life, short- and long-term disability plans for qualified employees who work at least half-time. Please view the PSI website for more information: www.psi.edu.