The Department of Geological Sciences and Laboratory for Remote Sensing and Geoinformatics at the University of Texas at San Antonio invites applications for a Postdoctoral fellow and a PhD scholarship in remote sensing, spatial analysis, and modeling of Antarctic sea ice. The project is funded by the new NASA research project "Antarctic sea ice thickness from space: validating estimates from the laser and radar satellite altimeters with ship-based measurements". Funding for those positions are available for three years for the PhD student, while the continuation of the postdoc position for the second and third years will be based on satisfactory performance. Both positions have the possibility to participate in field experiments. Both positions will be part of a multi-disciplinary research team of collaborators working on the characterization of sea ice thickness and extent, snow ice interface temperature, ice concentration, sea ice related bio-geochemistry and ecosystems from both satellite remote sensing and in situ measurements, as well as ice, ocean, and atmosphere interaction and modeling. Satellite data to be used includes but is not limited to ICESat, AMSR-E, RADARSAT, MODIS, EnviSAT, QuikSCAT.

Candidates for the PhD scholarship must hold a Master's or equivalent degree in science (remote sensing, geophysics, physical geography, or geology). Candidates for the Postdoc position must hold a PhD degree in science or engineering (remote sensing, geophysics, atmosphere, civil engineering). Both positions should have a strong background in research, image processing and analysis, and spatial data analysis. Strong programming skills and modeling experiences are a plus. The advisors to this position expect a general interest in climate studies and the Antarctic. Applicants must have good written and verbal communication skills.

To apply, please email an application to Profs. Ackley and Xie, including:
1) A short description of qualifications and research interests
2) A curriculum vita that provides relevant academic, employment, and personal details
3) Authorized transcripts of course work and authorized copies of diplomas of university degrees, all translated into English
4) Three letters of support from previous employers or supervisors
5) English proficiency certification, if applicable

For the postdoc position, at least one peer-reviewed journal publication relative to the research project is a must condition. The position is available immediately and will be open until it is filled.

The PhD candidate will be required to apply for enrollment as a PhD student at the Environmental Science and Engineering PhD program at UTSA. Please mention this PhD scholarship announcement in your graduate school application and notify the advisors, by email, of your application.

For further information, please contact:
Steve Ackley at phone: 210-458-6793 or email Stephen.ackley@utsa.edu, and/or Hongjie Xie at phone: 210-458-5445 or email hongjie.xie@utsa.edu.

Or visit the Laboratory for Remote Sensing and Geoinformatics at http://www.utsa.edu/LRSG/

The University of Texas at San Antonio is an equal employment opportunity employer. Minorities and women are strongly encouraged to apply.