

Multiple post-doctoral positions at the NASA/UTSA CAMEE

The newly created NASA Center for advanced measurements in Extreme Environments (www.utsa.edu/NASA-CAMEE) at the University of Texas at San Antonio (UTSA) is a collaborative initiative between College of Sciences and College of Engineering at UTSA with collaboration with NASA Laboratories (JPL, GSFC, and Langley). It has interdisciplinary expertise in areas of remote sensing, hypersonic measurements, atmospheric and oceanic measurements and modelling, sea-ice and turbulence.

Immediate multiple post-doctoral positions are available in the Center for highly motivated candidates in the areas of A. model development, B. data analytics such as machine learning, C. field measurements, and D. remote sensing. The topic areas include aspects of extreme events, including atmospheric/oceanic dynamics, sea ice measurements, wildland fire/volcanic/oceanic/sea-ice plumes, turbulent atmospheric boundary layer and others.

A. The candidate suitable for model development should be well proficient in one of the areas of atmospheric/oceanic/sea-ice model development, able to handle data analytics, have excellent knowledge of programming (F90, C, C++, python), and have knowledge of turbulence.

B. The candidate suitable for Data analytics should have expertise in machine learning, deep learning methodology and with excellent programming skills.

C. The candidate suitable for field studies should have participated in field campaigns and have good background of remote sensing.

D. The candidate suitable for remote sensing should have expertise working with NASA/ESA satellite/data products for cryosphere and/or hydrology applications, excellent programming and/or cloud computing/machine learning skills would be a plus.

Responsibilities include: Conducting high caliber research in geosciences, writing journal publications, participating in proposal building activities with NASA-Center PI's, mentoring graduate students, and participating in some outreach activities. The candidate should be able to perform well in team projects and should be a self-starter.

Ph.D. degrees in Mechanical Engineering, Geosciences, Physics, Applied Math, Aerospace Engineering or related areas is preferred. If you are interested in this position, please send your CV and 1-2 pages statement of purpose to camee@utsa.edu, cc'ing to Prof. Bhaganagar at Kiran.bhaganagar@utsa.edu and/or Prof. Xie at Hongjie.xie@utsa.edu.