Postdoctoral Research Opportunity

Implementation, calibration and evaluation of a regional coupled atmosphere-cryosphere model at NASA MIRO CAMEE and Department of Geological Sciences, University of Texas at San Antonio.

This 2-year postdoctoral research opportunity is offered for someone interested in developing coupled modeling using intermediate complexity atmospheric and glacier surface energy models to study Andean glacier environments under warming scenarios. Numerical modeling of glacier changes is steadily moving into two-way coupling between atmospheric and cryospheric processes, which promises improved representation of both components of the climate system, provided that they are simulated at relevant spatial resolutions. This is an exciting opportunity to interact with researchers based in the USA, Canada, and Chile, where the postdoctoral fellow will join a newly established group on Mountain Hydroclimatology at the NASA MIRO Center for Advanced Measurements in Extreme Environments (CAMEE) and the Department of Geological Sciences, University of Texas at San Antonio. Demonstrated knowledge on numerical modeling using standard tools (e.g. WRF) and programming skills on Fortran and scripting languages such as Python or R are required.

Interested applicants should contact Dr. Alfonso Fernández at alfonso.fernandezrivera@utsa.edu for details. It is expected that the researcher starts in Spring 2021.