2018 Summer Internship Opportunity

University of Alabama in Huntsville & NASA Marshall Space Flight Center

Turn on the television, or scroll through your news feed and you will find countless stories related to climate change and stress on limited natural resources. Underlying most of these are the related issues of decreasing water resources and increasing population size. As cities continue to expand and water becomes scarcer, we need trained students to discuss these environmental issues, the problems that arise from them, and to conduct cutting-edge research for the purpose of applying science to effect change. In the summer of 2018, three student interns will focus on a group of integrated research projects centered on URBAN SUSTAINABILITY AND CLIMATE. Students will investigate related issues in human health, ecology, and water availability focusing on a key urban area. Topics are expected to involve the study of environmental and socioeconomic variables that affect sustainability such as air and water quality, climate, human health, land cover land use, and water availability. Students will also be given the latitude to pursue related topics that are of particular interest to them.

As part of this project, student interns will spend ten weeks in the summer of 2018 at the National Space Science Technology Center (NSSTC) in Huntsville, Alabama working with NASA-affiliated researchers, Drs. Maury Estes, Robert Griffin, and Sue Estes (Earth scientists at the University of Alabama in Huntsville – UAH) along with an upper-division student researcher. Student interns will receive training in applied remote sensing, environmental and socioeconomic datasets, hydrologic principles, and GIS and geospatial analysis. Students will work in the NSSTC (co-location for NASA MSFC Earth Science Office, UAH Earth System and Atmospheric Science, and USRA Science and Technology Institute) and will join with other NASA interns in activities throughout the summer term - including presentation of research results at the end of the term.

This internship opportunity is part of the Center for Applied Atmospheric Research and Education (CAARE), a NASA-funded project led by San Jose State University (SJSU) and funded by the NASA Minority University and Education Project (MUREP) Institutional Research Opportunity (MIRO) Program. The goals of the NASA MIRO Center for Applied Atmospheric Research and Education are to promote STEM literacy among all students and to enhance and sustain the capability of students from underrepresented institutions to support NASA's Science Mission Directorate (SMD).

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2017 Student Interns