# Position Announcement

## *** GIS Technician or Post-Doctoral Scholar in Microwave Remote Sensing ***

The Microwave Remote Sensing Laboratory (MIRSL) is looking for a recently graduated student (PhD or MS) in the field of Remote Sensing, looking for a work with ecological applications.

The successful applicant will have *some combination* of the following characteristics:

1.) Have a background in GIS, Geography or an Engineering related field
2.) Ability to work with ArcGIS, QGIS, and other geographic information system software
3.) Have an interest and/or skills in programming in Python, Matlab, or other modern computing languages.  Experience with programming Jupyter notebooks is a plus.
4.) Have knowledge of map projections, datums, and available resources of public data
5.) Have demonstrated skills in communication and writing
6.) Be willing to work independently as well as in collaboration with graduate students and professors in a department of Electrical and Computer Engineering
7.) Have an interest in working with remotely sensed data (satellite and airborne), and environmental applications.

A significant part of this position will entail working with researchers at UMass, NASA and international partners, in the development of algorithms, training, and GIS products to participate in satellite projects such as NISAR (nisar.jpl.nasa.gov) and an upcoming mission that involves the remote sensing of snow for climatological and water resource monitoring.  This work would involve using data products from other sensors in order to answer questions in terms of satellite coverage and performance in different ecological regions, worldwide.

Additional opportunities in this program would involve participation in international conferences and in fieldwork that would involve cultivated and forested regions within the US and abroad.

Applicants should have graduated within the last two years with an MS or PhD and have a background in engineering, geography, or GIS systems.  The salary will be commensurate with educational background.

The Microwave Remote Sensing Laboratory at the University of Massachusetts, located in Amherst has world-class computing and hardware development facilities.  It has a 40-year history in working in remote sensing and has students working in hyperspectral, optical and microwave remote sensing.  Graduates from MIRSL have gone on to find rewarding jobs in industry, government laboratories (NASA, NOAA and NCAR), and academia.

Interested applicants should email Prof. Paul Siqueira at:  mirsl@umass.edu.  Please indicate "MIRSL GIS position applicant" in the subject line.  The start date is flexible, but expected to be filled before the end of March 2023.  The majority of work would be performed on-site at the University of Massachusetts in Amherst.