

## Position Announcement

### \*\*\* GIS in Microwave Remote Sensing \*\*\*

The Microwave Remote Sensing Laboratory (MIRSL) is looking for graduating BS/MS students in the fields of GIS, Geography and Remote Sensing, looking for a work in the exciting field of remote sensing for *ecological* applications!

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

- 1.) Ability to work with ArcGIS, QGIS, and other geographic information system software
- 2.) Have an interest and/or skills in programming in Python, Matlab, or other modern computing languages. Experience with programming Jupyter notebooks is a plus.
- 3.) Have knowledge of map projections, datums, and available resources of public data from MassGIS, USGS and NASA.
- 4.) Have demonstrated skills in communication and writing
- 5.) Be willing to work independently as well as in collaboration with graduate students and professors in a department of Electrical and Computer Engineering
- 6.) 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](http://nisar.jpl.nasa.gov)) and SWOT ([swot.jpl.nasa.gov](http://swot.jpl.nasa.gov)). 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 a background in engineering, geography, or GIS systems.

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: [siqueira@umass.edu](mailto:siqueira@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 summer 2020. Remote working would be the standard at the beginning, but then transition to being on site in Amherst, when restrictions abate related to COVID-19.

