

Graduate Assistantships, Department of Geography & Earth Sciences at the University of North Carolina at Charlotte at the intersection of health and GIS.

The Department of Geography and Earth Sciences at the University of North Carolina at Charlotte (UNC Charlotte) is recruiting several graduate students to immediately fill up to five research assistantships for recently awarded projects. Preference will be given to applicants who can start in the Spring 2021 semester.

One Ph.D. student with expertise in geostatistical modeling and environmental health. The student will work on developing rapid interpolation techniques to detect unusually high concentrations of contaminants in water from private wells in Gaston County, near Charlotte. This is a five-year project funded by the Centers for Disease Control and Prevention (CDC). The candidate will have a strong background in programming, spatial and/or geostatistics. The student will work in tandem with the second hires.

Two graduate students (Ph.D. or master level) with expertise in dashboard development to map environmental health data. The students will work on developing public- and expert-based dashboards (ESRI, Tableau or other platforms) to map unusually high concentrations of contaminants in water from private wells in Gaston County, near Charlotte. This is a five-year project funded by the Centers for Disease Control and Prevention (CDC). The candidates will have excellent skills in programming, spatial and/or geostatistics, GIS.

Two graduate students (Ph.D or master level) with expertise in Web GIS dashboard development for COVID19 wastewater surveillance. The student will work on the development of a Web GIS-driven dashboard for the analytics and mapping of wastewater data that will help monitor the COVID-19 information. This project is currently funded by UNC-Charlotte, with NIH funding pending. The candidate will have a strong background in Web GIS, CyberGIS, GIS-based programming, and good writing skills.

The students will be housed in the Center for Applied Geographic Information Science (<http://gis.uncc.edu>), and will be provided with powerful computers and have access to cyberinfrastructure-enabled high performance computing resources. Interested students should apply immediately to the Ph.D. program in Geography, Master of Arts Program in Geography, or Master of Science in Earth Sciences. The programs are waiving the GRE test. Students will receive 9-months stipend (four years for Ph.D. students, and two years for master students), including full tuition and health benefits. Summer support is also possible based on performance.

The University of North Carolina at Charlotte is the second largest campus in the state, with state-of-the-art geospatial computing facilities. Charlotte is the largest city in North Carolina. Contact Dr. Eric Delmelle (eric.delmelle@uncc.edu) & Dr. Wenwu Tang (WenwuTang@uncc.edu) for more information.