

## Postdoctoral position: Spatial modeling of cholera

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Cornell University and SUNY Upstate Medical University are conducting several research studies and surveillance projects related to the spatial ecology and epidemiology of infectious diseases, and examining the relationship of the environment and disease occurrence, prediction, and prevention, in international project sites in Ecuador.

**Requirements:** The candidate will construct and validate spatial models of algal blooms, and their relationship to the potential for cholera outbreaks in coastal Ecuador, using GIS/spatial analysis of epidemiological data, and novel data collection in 2014. This position will be based in New York, with short-term fieldwork at research sites in coastal Ecuador. Note: Salary will be commensurate with the applicant's experience. This is a grant-funded position with the possibility of renewal.

**Qualifications:** a PhD in spatial modeling/GIS, or spatial epidemiology; individuals with doctoral degrees in epidemiology, biostatistics, or public health may also apply. Experience conducting GIS-based spatial modeling, acquiring and using remotely sensed imagery, and novel spatial data acquisition. The ability to meet project goals in a timely manner, collaboratively publish results in appropriate journals, present findings in professional meetings and other settings.

Conversational Spanish, or willingness to achieve this level rapidly. Excellent technical, analytical, computer, organizational, and problem-solving skills, strong interpersonal and communication skills, and the ability to work both independently and as part of a multidisciplinary research team, are required. Strong attention to detail, proficiency in Spanish, excellent time management, goal and detail-oriented work style, and meticulous and consistent follow through on projects are required.

**Desired Qualifications:** Expertise in GIS, spatial modeling, and epidemiology / biostatistics. Fluency in Spanish and English. Project management experience and international public health fieldwork desired, particularly in Latin America. The ideal candidate will have proficiency in ArcGIS, R, GDAL, and/or statistical programming experience in other relevant languages (e.g., SAS). Additionally, skills in database construction, management and manipulation, as evidenced by previous projects and publications, are desired.

**To apply:** Applications including 1) a cover letter describing the applicant's interest, research experience, and available start date; 2) curriculum vitae; and 3) names and contact information of 3-5 references should be emailed (as one pdf file) to: Tina Lupone at [LuponeC@upstate.edu](mailto:LuponeC@upstate.edu).