GIS INFORMATICS & PUBLIC HEALTH FELLOWSHIP

ONE YEAR FULL-TIME FELLOWSHIP

Geospatial Research Analysis, and Services Program (GRASP)

Agency for Toxic Substances and Disease Registry (ATSDR) / Centers for Disease Control and Prevention (CDC) in partnership with Oak Ridge Institute for Science and Education (ORISE)

GRASP Mission and Objectives

The mission of GRASP is to provide leadership and expertise in the application of the concepts, methods, and tools of geography and geospatial information science to public health research and practice. GRASP collaborates with partners across the Centers for Disease Control and Prevention (CDC), the Agency for Toxic Substances and Disease Registry (ATSDR) and among the broader public health community. GRASP objectives are to:

- Research and analyze the geospatial trends and patterns relevant to diverse factors associated with environmental health, infectious and chronic disease, and emergency preparedness & response,
- Geospatially enable CDC/ATSDR scientists and systems with data, consulting, technology, and training,
- Collaborate with scientists at CDC/ATSDR and among the public health community to address diverse public health issues,
- Contribute to a vibrant geospatial community among public health professionals, and
- Embrace, leverage and promote technology.

GIS Informatics and Public Health Fellowship

During the GIS Informatics and Public Health Fellowship, the fellow will collaborate with the multidisciplinary GRASP staff, contribute to GIS informatics projects within public health, and have opportunities to access GRASP GIS training. The fellow will expand his or her knowledge in the design and development of GIS applications, tools, and utilities to support public health surveillance, research, data management, and systems integration. Although specific projects are yet to be determined, the fellow may develop web-based applications (using HTML, JavaScript, Adobe Flash/Flex), develop desktop ArcGIS applications (using Python), manipulate data in Microsoft SQL Server (using SQL and T-SQL), develop mobile applications for iOS and Android, or produce utilities to manage, store, and/or share GIS data. Strong written/verbal communication skills and collaborative skills are required. Software development and data management skills are strongly preferred.

Sample GRASP software development projects include:

- Automation of map production and population statistics using Python with ArcGIS (ESRI, Inc.);
- Development of web-based CDC NCHHSTP Atlas, which maps NCHHSTP surveillance data, using Adobe Flash/Flex;
- Automation of data management processes to import CDC NCIRD influenza surveillance data using T-SQL;

If interested, please email Andrew L. Dent, GRASP Program Director (adent@cdc.gov) using “ORISE” in subject line.

Only current college students or recent graduates (< 4 years beyond graduation date) are eligible. Applicants with degrees or coursework in informatics, computer science, geography, or public health are preferred.

Candidates must provide resume before February 6, 2015 to be considered.