

### **Spatial Epidemiology and Data Science Postdoctoral Fellowship**

The Tufts University School of Medicine's Department of Public Health and Community Medicine and the Health Informatics and Analytics Program invites applications for a Postdoctoral Fellowship in spatial epidemiology, health information, and data science.

The Fellowship provides opportunities to work with Tufts University faculty members on a variety of applied projects related to data science, public health, medicine, infectious disease and substance use and misuse. Research opportunities include projects that employ mixed methods approaches to identify and characterize disease hotspots, translational research programs that focus on community-based interventions to improve disease care continuums, and community based participatory research to improve our understanding of racial/ethnic disparities in infectious disease using combined statistical, geostatistical, social network, and spatial analyses. This Fellowship also requires formal teaching of at least one course in our new Health Informatics and Analytics program (MS and Certificate).

We would particularly welcome applicants interested in working on opioid syndemic projects with expertise in substance use and misuse, HIV/AIDS and HCV epidemiology, opioid overdose, spatial epidemiology, geostatistical analysis, implementation science, and translational research. Candidates will have opportunities to apply these skill sets to HIV, HCV, STI, and opioid epidemic studies that aim to better characterize the spatial distribution of risk behaviors and disease outcomes, spatial access to prevention and treatment services, and disease transmission networks to inform targeted public health responses within vulnerable populations. We also welcome applicants with a desire to evolve their teaching skills.

This is a one-year appointment beginning January 7, 2018. There is a possibility of renewal for a second year.

#### **Qualifications**

- Completion of a PhD (in a health-related field), DrPH, MD, DVM, DDS, or similar doctoral degree
- Research experience in the social sciences and data science
- Coursework in statistics, GIS, spatial epidemiology and data science required
- Teaching experience in online degree programs at the graduate level
- Experience with statistical software packages (e.g., SAS, STATA, R) to manage and analyze quantitative data
- Ability to conduct descriptive and complex statistical analyses, and to develop multivariable statistical models
- Ability to create static and dynamic (i.e., online interactive) GIS maps
- Experience working with ArcGIS, SatScan, CrimeStat, QGIS
- Ability to conduct spatial analyses, including hotspot cluster analysis, time-space cluster & trend analysis
- Ability to work well under pressure, understand and follow policies and procedures, and accommodate change
- Ability to take responsibility for assignments, work independently, and as part of a team
- Ability to handle confidential materials with discretion

Trainees must be citizens or a non-citizen national of the United States or have been lawfully admitted for permanent residence at the time of appointment.

Interested candidates should submit a curriculum vitae, cover letter, a list of three recommenders (name and contact information), and a brief statement describing their background and research training. These materials should be submitted to Dr. Thomas Stopka at: [thomas.stopka@tufts.edu](mailto:thomas.stopka@tufts.edu) by October 15, 2018.

*Tufts University is an Equal Opportunity/ Affirmative Action Employer. We are committed to increasing the diversity of our faculty and staff and fostering their success when hired. Members of underrepresented groups are welcome and strongly encouraged to apply. If you are an applicant with a disability who is unable to use our online tools to search and apply for jobs, please contact us by calling Johny Laine in the Office of Equal Opportunity (OEO) at 617.627.3298 or at [Johny.Laine@tufts.edu](mailto:Johny.Laine@tufts.edu). Applicants can learn more about requesting reasonable accommodations at <http://o eo.tufts.edu>.*