Data Manager
Public Health Dynamics Laboratory
University of Pittsburgh Graduate School of Public Health

The Public Health Dynamics Laboratory (PHDL) at the University of Pittsburgh Graduate School of Public Health is recruiting a data manager to contribute to the Project Tycho data infrastructure and to help the global health response against epidemic threats such as Ebola, Zika, and Dengue virus.

<u>Position Summary</u>
As part of the PHDL, the Data Manger will assist in the design and development of the Project Tycho data acquisition workflow. The Data Manager will be an integral part of the Project Tycho team that includes faculty, the project coordinator, students, and programming staff. The Data Manager will work closely with the Project Tycho database manager and will be responsible for the data acquisition workflow from original data source to preparation for loading into the Project Tycho database. The position requires familiarity with biomedical data, in particular population surveillance data, familiarity with databases, some familiarity or interest in automated data processing routines, familiarity with epidemiological or statistical research, Spanish language skills, and an independent, positive work attitude.

<u>Environment</u>
The PHDL is a world-class, inter-disciplinary modeling institute at the University of Pittsburgh focused on the development of agent-based simulators to represent transmission of infectious diseases. The PHDL coordinates various large-scale international modeling grants including an NIH funded Center of Excellence of the Models of Infectious Disease Agent Study (MIDAS) and the Gates Foundation funded Vaccine Modeling Initiative (VMI). In addition to world-class modeling, the PHDL hosts a comprehensive data infrastructure named Project Tycho that aims to improve access and use of public health data for decision making. The PHDL has strong links to the NIH Big Data to Knowledge (BD2K) initiative through collaboration with the University of Pittsburgh Department of Biomedical Informatics. The PHDL is at the center of international modeling and data science, maintaining collaborations with academic institutions and health authorities in Europe, Southeast Asia and Latin America, and with various global health agencies such as the US Centers for Disease Control and the World Health Organization.

<u>Responsibilities</u>
- Acquire data on global population health from online country sources
- Standardize data from heterogeneous formats and content into the common Project Tycho data format
- Integrate data into the Project Tycho data system
- Disseminate data to the general public

- Ensure a continuous acquisition and data quality monitoring process, using both manual and automated data processing algorithms
- Supervise students
- Contribute to development of new data processing algorithms and procedures and to development of material for the Project Tycho website.

Selection Criteria

- Minimum of a Masters degree
- 1-2 years of experience
- Spanish language required with additional language skills preferred
- Understanding of data structures and standards for biomedical data preferred
- Basic software skills in a relevant statistical or data processing package (R, Matlab, Python, Perl, SAS) required
- Strong interpersonal and communication skills required
- Ability to work independently and interact well with others
- Strong conceptual, organization, and analytical skills required

Send inquiries to: Dr. Wilbert van Panhuis wav10@pitt.edu
University of Pittsburgh position listing: https://www.pittsource.com/postings/125587