Research Fellowship Program - IRTA  
Center for Food Safety and Applied Nutrition

Project Title: CFSAN Data Integration, Analytics, and Visualization Development  
Research Mentor: Lyle Canida  
Location: 5100 Paint Branch Parkway; College Park, MD 20740

Description of Work:

Each year there are numerous illness and injury reports associated with products regulated by the FDA. Program offices within FDA’s Center for Food Safety and Applied Nutrition (CFSAN) are responsible for analyzing/reviewing data from multiple sources, both internal and external to FDA, to identify the underlying cause of adverse events. Review of the epidemiologic and the scientific literature about health outcomes potentially related to products regulated by FDA is also conducted. Discovery and management of hidden signals using these data sources can identify potential safety concerns and enable predictive and preventive actions to improve the safety of CFSAN regulated products (foods, dietary supplements, cosmetics). Data integration, analytics, and visualization development is paramount for an efficient and holistic approach to identifying and managing latent signals.

The ORISE position involves:
1) assisting in development of signals management processes for CFSAN regulated product safety  
2) helping analyze and understand the relation of adverse health events associated with FDA regulated products by using multiple data sources; and also helping to integrate, analyze, and visualize various data sources through customized development for program office support and early signal detection.

Examples of Tasks Include:
- Identify data sources applicable to a signals detection process  
- Aid in data analyses and layering/harmonizing of multiple data sources  
- Gather information to generate presentations and briefings for a variety of audiences  
- Assist in development of data dashboards for program office support  
- Support CFSAN program offices with data analytics and dashboard development

Scope of Work:

Independently, and not as an agent of the Government, the contractor shall furnish one individual with a Master’s degree in Epidemiology or Statistics, or closely-related field, with the technical expertise necessary for the performance of this work.

Length of work:

The ORISE fellowship position is for a one-year term.

Point of Contact:

Lyle Canida, PharmD, MS, CPH  
LCDR, U.S. Public Health Service  
Branch Chief  
Signals Management Branch  
Division of Public Health Informatics & Analytics  
Office of Analytics and Outreach  
Center for Food Safety and Applied Nutrition  
Food and Drug Administration  
CPK1 RM2D001  
5100 Paint Branch Parkway  
College Park, MD 20740  
(240) 402-1817 office  
(240) 701-7351 mobile