

NCCT POST-DOCTORAL PROJECT DESCRIPTION

Project Number:	NCCT-09-06
Location:	Research Triangle Park, NC
Title of Project:	Exposure Science for Chemical Prioritization and Toxicity Testing
Brief Description of Research Project:	<p>The post-doctoral associate selected for this research project will participate in developing novel tools for characterizing and predicting potential for biologically-relevant human exposure to chemicals. The EPA's National Center for Computational Toxicology has identified the need to include exposure information for chemical prioritization, modeling system response to chemical exposures across multiple levels of biological organization, and linking information on potential toxicity of environmental contaminants to real-world health outcomes.</p> <p>A critical need is the development of robust analytical approaches that use a wide range of human exposure data, product use information, and modeled human behavior to systematically prioritize potential for exposure based on chemical properties, product lifecycle, individual and population characteristics. Tools are required to characterize and classify thousands of chemicals in a rapid and efficient manner. This work will build on related international efforts to classify and prioritize chemicals for risk assessment (e.g., Canadian DSL, REACH, ChAMPS, etc).</p>
High Priority Research Area:	Computational Toxicology
Projected duration of appointment:	3 years; with option to extend up to 4 years.
Educational requirements:	Ph.D. in information sciences, chemical engineering, environmental informatics or related field.
Specialized training and/or experience preferred:	Along with an understanding of chemical fate and transport, strong analytical, environmental informatics and computational skills are needed. Basic background in biology and environmental sciences is preferred.
Scientific contact/Principal Investigator*	<p>Name: Elaine Cohen Hubal</p> <p>Email: hubal.elaine@epa.gov</p> <p>Link to Biosketch: http://www.epa.gov/comptox/biosketches.html</p>