Post-Doctoral Fellow Opportunity at NIEHS/NIH

Position Description:

A Computational Toxicology postdoctoral fellowship is available for a highly motivated individual at the National Institute of Environmental Health Sciences (NIEHS). The position is in the Division of Intramural Research, the Biostatistics and Computational Biology Branch, Computational Toxicology group, led by Dr. Nicole Kleinstreuer. The successful candidate will develop and apply computational methods, tools, and applications across a variety of exciting projects in the areas of computational toxicology, bioinformatics, and computational biology. Our lab works with high-throughput screening data from diverse platforms and uses machine learning and other computational techniques to analyze large data sets and build predictive models of how environmental chemicals may affect human health and disease pathways. The initial project focus will be on using Bayesian approaches and deep belief networks to develop modeling frameworks incorporating mechanistic knowledge to predict chemical effects such as carcinogenesis, developmental defects, and systemic toxicity. Other work will involve developing novel computational approaches to combine chemical structural information, exposure estimates, and experimental data in ways that can be applied to diverse environmental health issues.

Qualifications:

Candidates should have obtained a Ph.D. in computational biology, biomedical engineering, bioinformatics, computer science, or a related discipline. Programming skills, ideally in R and/or Python, are required, and experience in Bayesian modeling, deep belief networks, and the application of computational methods to high-throughput screening data are highly desirable. Excellent verbal and written communications skills and the ability to simultaneously work on a variety of diverse projects are essential.

NIEHS is in Research Triangle Park (RTP), N.C., between Raleigh, Durham, and Chapel Hill, and is near Duke University, The University of North Carolina-Chapel Hill, and North Carolina State University. Successful candidates will be offered a competitive stipend/salary. The NIH is dedicated to building a diverse community in its training and employment programs.

To Apply:

Please send curriculum vitae including publication list, brief summary of past/current research, and the names of three (3) references to Nicole C. Kleinstreuer, Ph.D. by email at nicole.kleinstreuer@nih.gov