

Postdoctoral Position in Computational Toxicology

Co-hosted by CCAAM/CaCVAM, Health Canada,
and Environment and Climate Change Canada

We are seeking a highly motivated and experienced Postdoctoral Research Fellow to join a team of interdisciplinary scientists at the recently launched Canadian Centre for Alternatives to Animal Methods (CCAAM) and its subsidiary, the Canadian Centre for the Validation of Alternative Methods (CaCVAM) at the University of Windsor. The overarching vision of CCAAM/CaCVAM is the replacement of animals in Canadian biomedical research, education, and regulatory testing through 21st-century science, innovation, and ethics.

The successful candidate will be a key leader in the design, development, validation, conduct, analysis, and publication of *human* biology-based toxicological risk assessment methods (also known as Computational Toxicology). The ideal candidate will have experience in toxicogenomic, immunologic, biochemical, and molecular biology-based assay systems as well as knowledge and experience in physiologically-based pharmacokinetic (PBPK) modeling, read-across, trend analysis, quantitative structure-activity relationships (QSAR) models, and adverse outcome pathways (AOP) to investigate mechanisms of toxicity.

The candidate must have a Ph.D. in a relevant field (e.g. Toxicology, Chemistry, Computational Biology, Applied Mathematics and Statistics, Bioinformatics, Environmental Studies, or Pharmaceutical Sciences) and basic knowledge in statistics and familiarity with computer programming (e.g. VBA, R, C, Python or Matlab) will be an asset; must have the ability to work independently and in an interdisciplinary team environment; must possess strong communication and writing skills, and the ability to multi-task with enthusiasm.

Under the co-supervision of CCAAM/CaCVAM, Health Canada, and Environment and Climate Change Canada, the candidate will have the opportunity to interact with a diverse team of national and international interdisciplinary academics, industry partners, and regulators. The position will be located primarily at the University of Windsor in Windsor, Ontario, Canada (across the river from Detroit, MI). The candidate will be

expected to travel to Ottawa for collaborations with Health Canada and Environment and Climate Change Canada and participate in international alternatives consortia.

Salary: Commensurate with expertise/experience.

To apply for this position, please send your curriculum vitae with a cover letter (describing your research background, interests, qualifications, and the reasons for your interest in CCAAM and its vision to promote alternatives) to:

Dr. Charu Chandrasekera, Executive Director, Canadian Centre for Alternatives to Animal Methods at cpchandr@uwindsor.ca