



POST-DOCTORAL SCIENTIST IN PUBLIC HEALTH

The Ohio State University – Environmental Microbiology Laboratory, College of Public Health

Description: Drs. Jiyoung Lee, Stuart A. Ludsin, and Jay F. Martin have 1.5 years of support for a Post-doctoral Scientist to determine if cyanobacteria blooms in Lake Erie pose a risk to human health.

The incumbent will lead an effort to use liquid chromatography-tandem mass spectrometry (LC-MS/MS) to determine if consumption of fish from Lake Erie, or consumption of fresh produce that is grown with water from Lake Erie and its region, poses a risk to human health, owing to contamination by cyanobacteria (e.g., *Microcystis* spp.) and their toxin, microcystin. The primary responsibilities of the post-doc will include: **1)** helping developing a robust, sensitive, and accurate method for toxin extraction and quantification in fish; **2)** helping quantify microcystin levels in Lake Erie's two most important recreational and commercial fishes (walleye and yellow perch); and **3)** helping examine the fate of cyanobacteria and toxins in different types of fresh produce which are irrigated with contaminated water. The Post-doc also is expected to help in the laboratory, write manuscripts, present scientific papers, and help mentor students that are conducting related field, laboratory, and modeling research.

Funds are available to support the position for a minimum of 1.5 years, beginning immediately.

Location: The incumbent would reside in the lab of Dr. Jiyoung Lee (<http://cph.osu.edu/people/jlee>) within The Ohio State University's College of Public Health, Division of Environmental Health Sciences, but also work closely with a dynamic, interdisciplinary team of OSU faculty, researchers, and students, including Dr. Stuart Ludsin (Aquatic Ecology Laboratory; <http://www.ludsinlab.com/>) and Dr. Jay Martin (Ecological Engineering; <http://fabe.osu.edu/our-people/jay-f-martin>).

Qualifications: A successful applicant will be creative, motivated, and capable of working both independently and cooperatively within an interdisciplinary group. Minimum qualifications include a PhD in environmental microbiology, ecology, or a related field. An ideal candidate would have experience with toxin (e.g., microcystin) detection, molecular methods, aquatic ecology, and (or) public health. Strong quantitative and communication skills are required.

How to apply: Interested candidates should email a single PDF file as an attachment to lee.3598@osu.edu with a subject line titled "Cyanotoxin Application". The PDF file should contain **1)** a cover letter indicating interest in the project, **2)** a curriculum vitae, **3)** a list of three references including names, email addresses, and telephone numbers, and **4)** two representative publications.