

Seeking Post-doc or Research Faculty Interested in Metal/Nano and Biological Interactions

We are seeking a post-doc with a PhD in environmental engineering/chemistry/geology/biochemistry or closely related field to investigate elemental cycling of nanoscale metals and the resulting impacts on the function of aquatic organisms (bacteria, fish) and/or human health. While all living organisms are exposed to natural, incidental or engineered metallic nanoparticles in diets (oral), workplace or natural environments (inhalation), biomedical drug delivery (intravenous) or through the use of consumer products such as sunscreens (dermal) where they can translocate throughout our bodies with benign, adverse or beneficial effects, there is growing evidence that metal-based nanomaterials can also form within living organisms and intriguing evidence suggests that such in-situ production of nanomaterials plays critical roles in biological function in ways we are just beginning to discover.

The position is supported by two centers (NSF and EPA) and internal university support aimed at creating a service-focused culture to help 10-15 PhD students in their research and to create new instrumentation platforms. Experience with ICP-MS and TEM/SEM sample preparation and analysis is highly desired, and critical for success of the project. We are seeking expertise in these areas and biology of fish, humans or other mammals.

The expectation will be to publish peer reviewed articles as a first author, although extensive collaborative papers with PhD students are also a natural consequence. There will be opportunities to assist in proposal development, and the post-doctoral position could evolve into a research scientist or research assistant professor position after two years. Qualified applicants with more than 10 peer reviewed journal papers and some experience writing proposals would be considered for a research assistant professor position.

Interested candidates should send to Paul Westerhoff (p.westerhoff@asu.edu) a resume, list of 3 potential references with contact information, and a 1-2 page cover letter describing how their interests match with the above description. Applications will be reviewed starting March 10, 2018 and continue until the position is filled with an excellent candidate.

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Paul Westerhoff, PhD, PE, BCEE

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Lifecycle of Nanomaterials (LCnano) homepage: <http://engineering.asu.edu/lcnano/>

NSF/ERC on NanoEnabled Water Treatment Technologies (NEWT): <http://www.newtcenter.org>