

David L Nieland

Subject: Research Postdoc Position Watershed and water quality

EPA-supported NRC post-doc opportunity now open for application.

Tools for watershed and water quality management A Postdoctoral Research Opportunity 22.03.05.B8329 is available to investigate decision support tools used for water quality and watershed management.

This competitive fellowship is administered by the National Academies Research Associate Program. Proposals should focus on evaluation and development watershed water quality management tools and models. The research approach may include watershed modeling, data science, meta-analyses, social science, and literature review to produce peer reviewed publications. Expertise desired includes knowledge of (1) watersheds and water quality management; (2) non- point and point source nutrient pollution; and (3) ecosystem ecology. Experience with watershed models, water quality data, statistics, geographic information systems, ecosystem services concepts, TMDL development, and the Clean Water Act will be beneficial. This applicant is encouraged to develop novel research questions based on the research interests of the postdoctoral scientist with the adviser to produce peer reviewed publications.

The Associate will work with Principal Investigator Dr. Ken Forshay of US EPA, Office of Research and Development, Ground Water and Ecosystem Restoration Division, at the Robert S. Kerr Environmental Research Center in Ada, OK. This position in EPA's Office of Research and Development includes opportunities for interaction with EPA scientists and scientists at various institutions.

Our group has ongoing projects that include watershed nutrient tool development, restoration ecology, and water quality studies. This opportunity allows flexibility in the scientific research and questions.

The Associate will support production of policy relevant peer reviewed publications to include (1) an evaluation of tools used in watershed management and (2) a report synthesizing available watershed and water quality tools useful for assessing potential outcomes in watersheds.

Research areas can include the effects of non-point source pollution approaches, interaction between point source and non-point source pollution management, restoration, or watershed management of water quality.

Evaluation or synthesis of tools and models used for nutrient or other non- point pollution control in watersheds. The proposed research should include the compilation of data and use of existing literature to provide insight on nutrients, temperature, and/or management of watersheds. The applicants are encouraged to contact Ken Forshay (forshay.ken@epa.gov) to discuss possible research proposal topics well before the proposal deadline of May 1.

<http://sites.nationalacademies.org/pga/rap/>

(url below should be one continuous line) <http://nrc58.nas.edu/RAPLab10/Opportunity/Opportunity.aspx?LabCode=22&ROPCD=220305&RONum=B8329>

Ken Forshay
Forshay.Ken@EPA.gov
580-436-8912