

**Postdoctoral Research Participation Program  
U.S. Environmental Protection Agency  
National Risk Management Research Laboratory  
Edison, New Jersey**

**Project: NRMRL/WSWRD-2007-01**

A postdoctoral research project is available at the U.S. Environmental Protection Agency (EPA), National Risk Management Research Laboratory (NRMRL). The appointment will be served in the Urban Watershed Management Branch (UWMB) in Edison, NJ. Individual(s) selected will have the opportunity to be closely involved with a team of EPA scientists and engineers investigating problems associated with deteriorating water and wastewater infrastructure. The successful applicant(s) will have the opportunity to propose, develop, and conduct research on:

- New and improved pipeline inspection, condition assessment, and cost estimating tools
- Innovative repair, rehabilitation, and replacement technologies and methods
- Techniques to improve performance, compliance with existing and new regulations, and extend service life
- More accurate approaches to detect and locate leaks
- Integrated watershed management, including innovative design concepts, real-time control, and advanced drainage and conveyance concepts

The participant(s) will have the opportunity to explore and advance the state-of-the-technology through literature searches and bench, pilot, and field studies. The participant may be involved in the evaluation and development of decision support tools and computer models to assist utility and watershed managers in addressing deteriorating infrastructure problems.

Applicants should have received a doctorate degree in environmental engineering, environmental science, or a related discipline (e.g., ecology, physical science, urban planning, and economics) within three years of the starting date, or completion of all requirements for the degree should be expected prior to the starting date. This project requires a strong, demonstrated knowledge of water and wastewater system dynamics, and the impediments to their successful management in the urban and suburban landscape. Applicants with experience in the development or use of condition assessment and decision-support systems, controlled-condition testing, and other management techniques are especially encouraged to apply.

The program is open to all qualified individuals without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a Vietnam era or disabled veteran. U.S. citizenship or lawful permanent resident status is preferred (but can also hold an appropriate visa status, however, an H1B visa is not appropriate).

The participant(s) will be selected based on academic records, recommendations, research interests, compatibility of background and interests with research programs and projects at NRMRL's WSWRD/UWMB, and the availability of funds, staff, programs, and equipment.

The appointment is full time for one year and may be renewed upon recommendation of NRMRL's WSWRD and subject to availability of funds. The participant(s) will receive a monthly stipend up to

\$5,845 depending on background and experience. Limited inbound travel and moving expenses may be reimbursed according to established policies. The participant(s) must show proof of health and medical insurance. This can be obtained through ORISE. The participant(s) does not become an EPA employee.

The mentor for this project(s) is Anthony N. Tafuri of the UWMB.

The Postdoctoral Research Program for NRMRL is administered by ORISE. ***Please reference Project # NRMRL/WSWRD 2007-01 when calling or writing for information.*** For additional information and application materials contact: Postdoctoral Research Program/NRMRL, Attn: Betty Bowling, MS 36, ORISE, P.O. Box 117, Oak Ridge, Tennessee 37831-0117, Phone: (865) 576-8503 FAX: (865) 241-5219, e-mail: [betty.bowling@orau.org](mailto:betty.bowling@orau.org).

An application can be found at [www.orau.gov/orise/edu/EPA/app-gugrgpd.pdf](http://www.orau.gov/orise/edu/EPA/app-gugrgpd.pdf)