



**RESEARCH PARTICIPATION PROGRAM
U.S. ARMY COLD REGIONS RESEARCH AND ENGINEERING LABORATORY (USACRREL)
HANOVER, NEW HAMPSHIRE**

Soil Microbiology Project at Hanover, NH

Project #CRREL-LC-2011-019

The U.S. Army Cold Regions Research and Engineering Lab (CRREL) is part of the U.S. Army Corps of Engineers (USACE). The mission of CRREL is to solve interdisciplinary, strategically important problems of the US Army Corps of Engineers, Army, DOD, and the Nation by advancing and applying science and engineering to complex environments, materials, and processes in all seasons and climates, with unique core competencies related to the Earth's cold regions. CRREL's future involves service as a contributing member of the Corps family and its worldwide leadership role in cold regions research. There is a continuing challenge to improve the fighting capability of the military in the cold environment.

Two appointments are available at the Cold Regions Research & Engineering Lab in Hanover, New Hampshire. These appointments include, but are not limited to, the following:

- Conduct Army-funded research as part of the CRREL soil microbiology team to include:
 - describing cycles and perturbations in surface soils, the subsequent effects on the biology of the soils, and possible feedback mechanisms that amplify or attenuate the change,
 - identifying signature patterns from standoff sensing and relating these patterns to biological or biochemical changes in surface soil,
 - identifying persistence of microbial communities in surface soils and plants, and
 - describing and representing trends and uncertainty in soil systems.
- The research can range from applied to basic, and can be laboratory, mesocosm, or field scale.
- Experience with developing and using applications such as models or GIS representations is desired.
- Author and co-author manuscripts and collaborate with others from government, academia, and industry.
- Attend scientific conferences, meetings, and symposia.

Applicants should have completed a Doctoral Degree in Soil Microbiology or related discipline within five years of the desired starting date, or completion of all requirements for the degree should be expected on or about the starting date. Other applicants will be considered on a case-by-case basis. The program is open to all qualified U.S. citizens and Lawful Permanent Residents without regard to race, sex, religion, color, age, physical or mental disability, national origin, or status as a Vietnam era or disabled veteran.

The participants will be selected based on academic records, recommendations, applied research interests and compatibility of background with applied research programs and projects at CRREL and/or the host Installation.

The initial appointment is for **one year** and may be renewed for up to a total of four years based upon recommendation of CRREL and subject to availability of funds. The appointment is **full-time at the host installation**.

The participant will receive a monthly stipend. The stipend rate is determined based upon level of education, training, and experience. Inbound travel and moving expenses are reimbursed according to established policies. Travel and other costs will also be reimbursed for training related to the project and approved by ORISE and the host installation.

The participant must show proof of health and medical insurance. Health plans are available through the Oak Ridge Institute for Science and Education for Postgraduate Internship participants.

Applications are due by February 18, 2011. The appointments are to begin on or about March 1, 2011. The Oak Ridge Institute for Science and Education administers the Research Participation Program for the CRREL. Please reference **Project #CRREL-LC-2011-019** when calling, emailing, or writing for information. For immediate consideration applicants may forward resumes or vitas to the email address listed below. Additional information and application material can be found on the following website www.ORAU.org/Maryland.