DRI is accepting applications for

Postdoctoral Fellow
Snow Hydrology Modeler

Reno, NV Campus

The Desert Research Institute (DRI) and the Division of Hydrological Sciences is accepting applications for a Postdoctoral Fellowship in snow hydrology and surface water modeling supported by the Sulo and Aileen Maki Trust.

The successful candidate will work in a research group to evaluate past, present, and future impacts of impurities on snowmelt and surface water flows in the Colorado Basin and other semi-arid regions where snowmelt is a significant component of the water cycle. Impurities include desert dust and soot (black carbon) from wildfires and industrial emissions.

The successful candidate will also be expected to assist (and in some cases take the lead) in developing and applying new field and laboratory methods for quantification of impurities in snow, to refine and utilize models of snowmelt and surface water hydrology, and to participate fully in data analysis and the interpretation and publication of results. This research is highly interdisciplinary, and the successful candidate will need to bring skills including expertise and interest in chemistry, hydrology and/or atmospheric science, and modeling – particularly snowmelt and surface water modeling.

The Postdoctoral Fellow will have the opportunity to work in a unique snow and ice chemistry laboratory for trace and ultra-trace chemistry measurements in snow, ice, and water, which includes: (1) a state-of-the-art ice core melter; (2) two high-resolution inductively coupled plasma mass spectrometers for elemental measurements of dust and other impurities at very low concentrations; (3) a single particle soot photometer (SP2) for precise determinations of soot; and (4) numerous spectrophotometers, fluorimeters, particle counters, etc.

In addition to research duties, the candidate will have the opportunity to participate in grant writing and proposal development efforts.

The fellowship provides up to three years of salary coverage with support in the second and third years contingent upon successful progress in prior years. The position is located in DRI's Northern Nevada Science Center, Reno, Nevada.

REQUIRED QUALIFICATIONS:

- Ph.D. in hydrology/hydrogeology, or other related discipline from an accredited institution
- Expertise and interest in hydrology, meteorology, and/or atmospheric and environmental science, with a strong background in modeling.
- Evidence of the ability to participate in and coordinate collaborative research
- Ability to develop research proposals and participate in grant writing
- Ability to work independently to fulfill project goals and meet project deadlines
- Research focus that is complementary with existing DRI programs
- Excellent verbal and written communication skills

CONDITIONS OF EMPLOYMENT:

The individual who is offered and accepts this position must provide, within 30 working days of his/her start date, a copy of the transcript(s) of the highest degree he/she has acquired, as awarded by an accredited institute as recognized by the United States Department of Education and/or the Council on Higher Education Accreditation (CHEA).

SALARY / BENEFITS

Salaries are competitive and commensurate with qualifications, with continued appointment (assessed annually for up to a maximum of three years, depending on continuation of funding) being dependent upon performance and availability of funding. This position is eligible for DRI's benefits package and relocation assistance. For detailed information, visit our website at http://www.dri.edu/careers/employee-benefits.

Visit us at http://jobs.dri.edu/postings/148 for complete details and to apply. To ensure full consideration, your application package should be received by May 30, 2016.

DRI is an AA/EEO employer who gives consideration in employment without regard to race, color, religion, and sex. Individuals with disabilities or protected veteran status are encouraged to apply.

HR 04222016