



Consortium of Universities for the Advancement of Hydrologic Science, Inc.

Notice of Opportunity: Leader for Hydrologic Modeling Platform Workshop

As part of the development of cyberinfrastructure for the hydrologic sciences community, the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI) seeks a senior scientist to assist in the design and to lead a series of workshops on the development of a community modeling platform that could support multi-scale hydrologic models (up to the continental scale). A key attribute of this modeling platform is its ability to support models of multiple portions of the hydrologic cycle (e.g., unsaturated zone, groundwater and surface water) for the development of comprehensive hydrologic models.

The leader for these workshops will work closely with personnel from CUAHSI Hydrologic Information System (HIS) project that has been evaluating technical aspects different modeling environments and their compatibility with HIS data delivery systems. Issues to be considered include the effective design of a library of interoperable modules for alternative process representations, metadata requirements for such modules (including measures of uncertainty) and upscaling and downscaling of model parameters. The overall objective of this effort is the improvement of hydrologic prediction, including a more comprehensive representation of the hydrologic cycle in general circulation models. Collaboration with related disciplines, such as atmospheric sciences and ecology, is expected, and collaboration with government scientists from relevant agencies is encouraged.

The leader of this effort will be identified in a proposal to the National Science Foundation that contains a portfolio of activities, including the Hydrologic Modeling Platform workshops, for CUAHSI's renewal. Up to one month of summer salary for up to 3 years will be available for workshop design, development of position papers, and final workshop reports. If successful, these activities would begin in August, 2008.

To be considered as a leader for these workshops, please submit to exdir@cuahsi.org the following documents:

1. A 1-page description of strategy for design of the workshops, such as format, strategy for engagement of other disciplines and of government agencies other than NSF,
2. A two-page NSF-style CV, and
3. A statement of support necessary (to a maximum of one month summer support per year).

Proposals must be received no later than July 2, 2007 for consideration in the CUAHSI renewal proposal.

Please contact Rick Hooper (exdir@cuahsi.org or 202-777-7306) for further information.