**Research Scientist I Special/UV-B**

The USDA UV-B Monitoring and Research Program at the Natural Resource Ecology Laboratory, Colorado State University seeks a full-time Research Scientist I. The position will be responsible for developing and programming the interface coupling of a regional climate model with several crop models for climate variability/change impact studies and to be a team member of an ongoing effort to produce USA UV-B climatology. The position is supported by a USDA grant that funds the establishment and operation of a national network of surface solar radiation monitoring sites. Currently 34 sites exist in the USDA UVBMR network. Emphasis is on the region of ultraviolet radiation commonly referred to as "UV-B", an area of the solar spectrum identified as responsible for plant and materials damage as well as human health problems. Since UV-B radiation is expected to increase in the future as a result of stratospheric ozone reduction, knowledge of current radiation levels, natural variations, and trends are critical to the understanding of the potential impacts on agricultural productivity and human health. The USDA UV-B Monitoring and Research Program coordinates with other federal agencies with UV-B measurement programs as well as those in Canada, New Zealand, and Europe and works with the U.S. Weather Service, Canadian Atmospheric and Environment Service, and World Meteorology Organization (WMO) to establish an international data base for UV-B.

The major responsibility is in support of developing an integrated crop impact assessment system that fully couples the Earth’s climate, ultraviolet-visible solar radiation and crop growth models and assimilates satellite and in situ observations to ultimately predict climate-crop interactions. The primary job responsibility will be to develop and program an advanced model infrastructure to quantify the impacts of important environmental stressors on agricultural crop yield and quality. This effort will facilitate model sensitivity studies by interface implementing, coding and testing to provide credible information on crop responses to regional climate variability and changes. This information is important to decision makers for determining optimal cultural practices, assessing potential risks, and identifying risk management strategies. The successful applicant will be expected to coordinate with project members working on other aspects of the project, analyze model results, and report the results through conference presentations, written reports, and peer-reviewed articles.

Qualifications:
Ph.D. in Agricultural Meteorology, Atmospheric Sciences, Plant Physiology, Applied Statistics or related discipline; 1-5 year’s experience with running numerical models and simulation modeling of agricultural and natural resource systems and interface coupling; experience in using crop models; knowledge of plant physiology and interactions between climate and crops; knowledge of atmospheric process, climate variability and climate change; a sound understanding of computer simulation software/GIS software, data assimilation, relational data bases, and system analyzes; and excellent and demonstrated verbal and written communication skills. Applicants with previous experience in ecosystem, climate and/or land-surface modeling, and programming and debugging ability in FORTRAN and C/C++ languages are strongly preferred.
Although this long-term program has been running for over 13 years, funding of the position is dependent upon continued federal support which is renewed on an annual basis. This position is dependent upon performance and continued availability of funding. Salary is negotiable, commensurate with experience, in the range of $40,000-$50,000 per year, with benefits. Starting date will be as soon as the position is filled. Send a CV, a statement of research interest, a list of publications and three letters of reference (required) to Rita Deike, Program Assistant, UV-B Monitoring and Research Program, Colorado State University, 419 Canyon Avenue, Suite 226, Fort Collins, CO 80521-2671; or (preferred) PDF or WORD file via e-mail to ritad@uvb.nrel.colostate.edu, questions contact 970-491-3600. The deadline/postmark for applying is July 15, 2005. Availability for an interview in Fort Collins is required.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin, gender, sexual orientation, veteran status or disability, or handicap. The University complies with the Civil Rights Act of 1964, related Executive Orders 11246 and 11375, Title IX of the Education Amendments Act of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Section 402 of the Vietnam Era Veteran's Readjustment Act of 1974, the Age Discrimination in Employment Act of 1967, as amended, American Disabilities Act of 1990, and all civil rights laws of the State of Colorado. Accordingly, equal opportunity for employment and admission shall be extended to all persons and the University shall promote equal opportunity and treatment through a positive and continuing affirmative action program. The Office of Equal Opportunity is located in 101 Student Services. In order to assist Colorado State University in meeting its affirmative action responsibilities, ethnic minorities, women, and other protected class members are encouraged to apply and to so identify themselves.