

Land Ice Modeling Scientist I/II/III/IV

Tracking Code

17004

Job Description

A **land-ice modeling Scientist** position with 12 month base salary support is open in the Climate and Global Dynamics (CGD) Laboratory of the National Center for Atmospheric Research (NCAR) in Boulder, Colorado. This position comes with associated software engineering and project scientist support, as well as a share of CGD administrative and computing resources.

The Community Earth System Model (CESM) has state-of-the-art capabilities for Greenland ice sheet applications, including an efficient, higher-order ice sheet dynamical core, and two-way coupling between the ice sheet and other climate model components. From this strong base, the specific responsibilities associated with the position are: to conduct original, independent and collaborative research toward the development of the CESM Land Ice Model; to provide scientific leadership for the extension of the CESM Land Ice Model to Antarctica, including the parameterization of processes coupling ice shelves to ice sheets and the ocean; to lead and facilitate research on the past and future evolution of ice sheets; and to communicate scientific results through both publications in scientific journals and presentations at national and international scientific meetings. In order to address the high-priority community requirements efficiently, activities are to be coordinated with the CESM Land Ice Working Group (LIWG), university contributors, and other national laboratories. The successful candidate will supervise a newly hired Project Scientist and a Software Engineer in the new CESM Land Ice Modeling project at NCAR.

The successful candidate also will be expected to contribute to the CGD mission, "To discover the key processes in each component of the Earth's climate system and to understand the interactions among them; to represent this knowledge in community models that effectively utilize computing advances; and to apply these models and observations to scientific problems of societal relevance." To fulfill this mission, CGD encourages and supports a triad of interdependent activities: fundamental research into atmospheric and climate processes, community model development, and the application of these models to research the earth's climate system. CGD is the host center of the Community Earth System Model (CESM), and virtually all its activities and resources directly or indirectly support CESM, either in the immediate or longer term. CGD scientists do have the opportunity to develop an independent research program, within the broad scope of these expectations and of the NCAR and CGD strategic plans. Such research could be either collaborative or independent, but should take advantage of and contribute to NCAR as a national center.

The position may be filled at any of NCAR's scientist levels, Scientist I, Scientist II, Scientist III, or Senior Scientist, depending on experience and qualifications. These levels are approximately equivalent to university tenure track ranks of Assistant Professor,

Associate Professor, Associate Professor with tenure and full Professor, respectively. Promotion from either Scientist I or II is expected sometime within a 5 year term, pending a successful review of scientific productivity and innovation, contributions to CGD and NCAR programs, community service, and emerging scientific leadership. Scientist III and Senior Scientist appointments are made by the NCAR director based on the recommendation of the NCAR Appointments Review Group.

Information for Applicants: To apply for this position, visit UCAR Human Resources (https://ucar.silkroad.com/epostings/index.cfm?fuseaction=app.jobinfo&jobid=218019&version=1#.V_a1ZWihjIA.gmail). A Ph.D or equivalent experience in glaciology, earth system science, atmospheric science, environmental science, oceanography, or a related physical science is required.

Applicants are requested to supply:

1. A cover letter
2. A statement of research interests and how they might contribute to the CGD mission and strategic plan
3. A current CV
4. The names of four potential references.

CGD is a laboratory of NCAR, a Federally Funded Research and Development Center (FFRDC) of the National Science Foundation. NCAR is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply. Further information about NCAR, CGD, the CGD Strategic Plan, and CESM can be found at <http://www2.cgd.ucar.edu>.

Relocation costs paid per UCAR's relocation policy.

UCAR/NCAR will sponsor a work visa to fill this position.

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Whatever your intersection of identities, you are welcome at the University Corporation for Atmospheric Research (UCAR). We are committed to inclusivity and promoting an equitable environment that values and respects the uniqueness of all members of our organization.

Job Location

Boulder, Colorado, United States

Position Type

Full-Time/Regular
Appointment Type
Term Full-Time (T1)