

Biogeochemical Modeling Scientist II/III
NCAR – Boulder

The Climate and Global Dynamics Division (CGD) at the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, seeks an individual to provide leadership and guidance to a program devoted to addressing scientific questions that are germane to understanding global biogeochemical cycles, their interactions with climate, and improving their numerical simulation and prediction in Earth system models.

This individual will carry out research aimed at improving or introducing parameterization of major biogeochemical processes in global scale Earth system models and specifically in NCAR's Community Climate System Model (CCSM). These processes include: terrestrial carbon, nitrogen, and phosphorus cycles; wildfires, land cover change, and land use management; biogenic aerosols; marine ecosystems; and oceanic biogeochemical cycles. Will be instrumental in setting the biogeochemical research directions of the CCSM project and of CGD and will communicate research results by publishing papers in scientific journals and by giving presentations at national and international meetings.

Conducts independent and collaborative research to understand and model biogeochemical processes in the Earth system. Advances biogeochemical research for the CCSM and its land and/or ocean ecosystem models as a leader of the CCSM biogeochemical model development team. Poses scientific questions about the coupled climate-biogeochemical system and analyzes results of the coupled model.

Collaborates with members of the university and laboratory communities to improve our understanding of major biogeochemical processes that influence the large-scale climate and to ultimately improve their parameterization in global biogeochemical models and Earth system models.

Requires Ph.D. in atmospheric science, earth system science, environmental sciences, oceanography, or ecology, or a related science; plus 5-8 years' experience beyond the Ph.D. and evidence of a developing national scientific reputation (Scientist II); or 8-13 years' experience beyond the Ph.D. and strong evidence of a national scientific reputation (Scientist III).

Must have ability to conduct high-quality, independent and collaborative research in one or more of the areas indicated above and have ability to effectively convey research results through publications in scientific journals and through presentations at national and international meetings. Requires technical ability to work with both global scale biogeochemical models and with complex geophysical models. Must have ability to work on a team of NCAR and non-NCAR scientists and skill in building effective collaborations inside and outside of NCAR.

In addition, Scientist III must be able to manage a team of NCAR and non-NCAR scientists and to prepare proposals for research and outreach opportunities and to manage awarded projects.

View detailed job description at www.ucar.edu (jobs and opportunities/careers at UCAR). Initial consideration will be given to applications received prior to 9/30/2009. Thereafter, applications will be reviewed on an as-needed basis. Apply online (reference tracking

code #9062). We value diversity. AA/EOE