

Faculty Position
Earth System Science Interdisciplinary Center (ESSIC)
University of Maryland, College Park

The Earth System Science Interdisciplinary Center (ESSIC) at the University of Maryland invites applications for a tenure-track academic faculty position pertaining to interactions of the land-atmosphere-ocean system.

ESSIC is a joint center between the University of Maryland Departments of Atmospheric and Oceanic Science, Geology, and Geography together with the Sciences and Exploration Directorate at the NASA/Goddard Space Flight Center. It is located at M-Square, a new research park three miles from the main campus, and future home to NOAA's new National Center for Weather and Climate Prediction. ESSIC also administers the Cooperative Institute for Climate Studies (CICS), which is a joint center with NOAA's National Centers for Environmental Prediction (NCEP) and the National Environmental Satellite, Data and Information Service (NESDIS). The goal of ESSIC is to enhance our understanding of the interactions of the coupled atmosphere-ocean-land-biosphere components of the Earth system as well as the influence of human activities on the system. The Director of ESSIC is Prof. Antonio Busalacchi.

The ESSIC staff is currently composed of approximately 60 academic and research faculty spanning meteorology, oceanography, geology, and geography. Applications are solicited in the following general areas:

- Land Surface Hydrology
- Regional Climate Modeling

ESSIC leads the campus-wide Climate Initiative, a component of which is an end-to-end predictive Regional Earth System Model (RESM) for dynamic downscaling from days to decades. ESSIC seeks candidates who: a) can play a leading role in the research and continued development of such a system, or b) have demonstrable research experience in land surface hydrology and the study of land-atmosphere interactions on global to regional scales. Depending on experience, the candidate will be expected to contribute to, if not lead, RESM efforts and will interact with the ongoing Chesapeake Bay Forecast System team to develop the fully coupled downscaling with applications for management of resources such as water, food, and energy, forecasts and projections for human health, for air and water-quality, agriculture, and fisheries. End-user products, decision-making tools, and input to data gathering efforts for empirical forecasting of linked products, data assimilation, parameter optimization, and Observing Systems Simulation Experiment (OSSE's), are within the purview of the candidate's research agenda in collaboration with the Chesapeake Bay Forecast team and researchers in Atmospheric and Oceanic Sciences, Public Health, Bioinformatics, Agricultural Resources and Economics, Estuarine and Environmental Sciences, and national agencies such as NASA and NOAA.

The position is expected to be filled at the Assistant/Associate Professor level, but applications from senior distinguished candidates will be considered as well. The appointment is state-funded for the nine-month academic year. A Ph.D. degree in an appropriate discipline of Earth System Science is required. The successful applicant expected to demonstrate a commitment to excellence in research and teaching and a desire to work in a multi-disciplinary environment. The successful applicant is expected to participate in the teaching program of the Department of Atmospheric and Oceanic Science, Geology, or Geography to guide graduate students toward advanced degrees, to conduct independent, cross-discipline research, to publish research results, and to compete for grants and contracts.

In order to ensure full consideration, curriculum vitae, statement of professional goals, and the names of at least three references should be sent by August 15, 2009 to:

Andrew Negri
Assistant Director/ESSIC
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Attention: ESSIC Assistant/Associate Faculty Position

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