

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

The Earth System Science Interdisciplinary Center (ESSIC) at the University of Maryland is seeking a research fellow for a one-year appointment with the possibility of extension depending on funding. The position can be filled at postdoc or scientist level. The successful candidate will be a part of the dynamic team building the Chesapeake Bay Forecast System (CBFS) consisting of regionally coupled atmosphere, land, and ocean models complete with ecosystem and biogeochemical components to enable near-real time applications and climate change research. The incumbent will join a group of researchers to carry out the following job duties: perform the initial configuration of the Soil and Water Assessment Tool (SWAT) model for some major river basins within the Chesapeake Bay watershed, set up one-way coupling of SWAT with the CBFS atmospheric model, carry out calibration and uncertainty analysis of the SWAT models, and provide model output to the CBFS ocean model. Candidates are expected to have Ph.D. degrees in hydrology, water resources engineering, or a related physical science discipline with background in watershed and water quality modeling, ArcGIS, and programming. Experience with SWAT model is highly desirable. Effective verbal and written skills are essential. Master degree holders with excellent background will also be considered.

ESSIC is a joint center between the University of Maryland Departments of Atmospheric and Oceanic Science, Geology, and Geography together with the Earth-Sun Exploration Division at the NASA/Goddard Space Flight Center. ESSIC also administers NOAA's Cooperative Institute for Climate Studies (CICS), which conducts collaborative research with the National Centers for Environmental Prediction (NCEP) and the National Environmental Satellite and Data Information Service (NESDIS) of NOAA. Presently, the ESSIC staff is composed of approximately 50 academic and research faculty spanning meteorology, oceanography, geology, and geography.

Salary for the incumbent will be competitive with full benefit including health insurance. The position is open in January 2009. In order to ensure full consideration, a curriculum vitae, statement of professional goals, and the names of at least three references should be sent to Huan Meng at Huan.Meng@noaa.gov.