The Space Weather Laboratory, Heliophysics Science Division, Goddard Space Flight Center is seeking a leader in ionosphere-thermosphere-mesosphere (ITM) science and space weather applications. Grade level (GS14 or GS15) will depend on the qualifications of the candidate. This Research Astrophysicist position is only open to U.S. citizens. Desired experience includes expertise in: measurement and simulation of atmospheric neutral density, ITM modeling and data analysis, data assimilation technology applied to space weather modeling, and the fundamental science of physical phenomena in the ITM domain. A significant portion of the selected candidate’s work will be dedicated to serving as ITM Lead for the Community Coordinated Modeling Center (CCMC; https://ccmc.gsfc.nasa.gov), a multi-agency partnership enabling, supporting, and performing research and development for next-generation space science and space weather models. Members of underrepresented minorities and women are particularly encouraged to apply. The US government is an Equal Opportunity employer, including veterans and individuals with disabilities.

The successful candidate will:

* Lead independent and collaborative cutting-edge scientific research on the lower atmosphere.
* Onboard, validate, and maintain the set of ionosphere-thermosphere-mesosphere (ITM) models at the CCMC, and provide expert science support for expert-guided simulation services to the research community.
* Supervise a team of ITM scientists (contractors and post-docs).
* Implement data-assimilation methodologies into ITM models at the CCMC.
* Publish in peer reviewed journals, present at national and international conferences and workshops, conduct technical reviews, and provide similar services to the heliophysics and space weather communities.
* Serves as a subject matter expert on neutral atmosphere-ionosphere coupling, effects of tides and gravity waves on the upper atmosphere ("space weather from below"), and orbital drag.
* Support inter-Divisional efforts at GSFC to develop a comprehensive coupled modeling system from the ground to the upper ionosphere.
* Support current and future ITM missions from concept design to Phase E with relevant modeling, and Serve as Project Scientist, Mission Scientist, or Instrument PI/Co-I on ITM missions.
* Maintain existing productive partnerships for the CCMC and establish new ones with the Moon-to-Mars Space Weather Analysis Office, other GSFC Divisions and NASA Centers, NOAA/SWPC, NCAR, USAF/USSF, and other end users.
* Represent the SWL and the CCMC at professional meetings, workshops, and conferences to publicize the value of the CCMC’s ITM resources for the heliophysics and space weather communities.

The job advertisement, including basic requirements, competencies, and instructions for applying can be found on USAJobs: <https://www.usajobs.gov/job/818797100>. The advertisement will be open from November 14 through December 2. Please contact Dr. Judy Karpen ([judy.karpen@nasa.gov](mailto:judy.karpen@nasa.gov)) with any questions on the position.