

**AGU Pathfinder - 30 days online \$545**

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**American Meteorological Society - 30 days online \$375**

**Community Modeling and Analysis System – 60 days online \$25**

#### **Postdoctoral Research Fellow**

##### **Postdoctoral Research Fellow, Atmospheric Sciences**

The George Mason University, Center for Spatial Information Science and Systems (CSISS) in collaboration with the Satellite Earth System Studies (CISESS) Program and NOAA's Air Resources Laboratory invites applications for 2 Postdoctoral Research Fellow positions to work with the Chemical Modeling & Emissions group at ARL in the NOAA Center for Weather & Climate Prediction (NCWCP) in College Park, MD.

George Mason has a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff, and strongly encourages candidates to apply who will enrich Mason's academic and culturally inclusive environment.

##### **Responsibilities:**

The 2 incumbents will perform research related to weather and air quality forecasting and possess a broad range of knowledge and skills including atmospheric chemistry modeling, emission science, high performance computing, air quality data analysis and model evaluation, machine learning technologies, satellite data analysis and superior communication abilities.

- One postdoctoral associate will work closely with ARL scientists to develop an emissions processing system for NOAA aerosol and atmospheric composition (AAC) models in the Unified Forecast System (UFS) framework and perform simulations with UFS AAC models and evaluate results toward the improvement of emissions inputs;
- A second postdoctoral associate will focus on developing machine learning emulators for components of UFS AAC models or postprocessors;
- Both candidates will be expected to publish their results in high-quality, peer-reviewed journals and make clear, professional presentations at major conferences, seminars and other internal NOAA meetings.

##### **Required Qualifications:**

- PhD in atmospheric sciences or related field;
- Excellent written and oral communication skills;
- Experience in atmospheric chemistry modeling and/or emissions science;
- Experience with machine learning technologies and development of process emulators;
- Experience working in high performance computing environments.

##### **Preferred Qualifications:**

- Experience with emissions processing software, but especially the Harvard-NASA Emissions Component (HEMCO);
- Familiarity with the Community Emissions Data System (CEDS), the Emissions Database for Global Atmospheric Research (EDGAR), or other global emissions datasets;

- Proficiency in FORTRAN and Python.

**Special Instructions to Applicants**

For full consideration, applicants must apply for position number **F558AZ** at <https://jobs.gmu.edu/>; complete and submit the online application; and upload a cover letter, resume, and a list of three professional references with contact information.

*George Mason University is an equal opportunity/affirmative action employer, committed to promoting inclusion and equity in its community. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or veteran status, or any characteristic protected by law.*