



National Institute of Aerospace

Postdoctoral Research Scholar

Study the Impacts of Volcanoes, Fires and Pollution on the Earth System

National Institute of Aerospace (NIA), located in Hampton, Virginia, has an immediate opening for a postdoctoral Researcher to conduct research in the area of atmospheric sciences. The successful candidate will work with renowned scientists that study the impacts of volcanoes, fire and pollution on the stratosphere and climate. This position requires broad knowledge in atmospheric sciences, good skills in programming (IDL, Fortran, Python) and a spirit of exploring the unknown to make significant discoveries. The candidate will perform various tasks including analysis of satellite observations and numerical simulations but could also be involved in field work in multiple international locations (France, India, Brazil). This work supports multiple government customer programs but primarily the National Aeronautics and Space Administration (NASA). Progress will be presented at relevant technical meetings.

Primary Responsibilities:

- Conduct research on atmospheric aerosols, processes, and dynamics.
- Utilize cutting-edge technology, satellite data, and airborne observations to analyze atmospheric phenomena.
- Develop and apply advanced models and simulations to understand complex atmospheric interactions.
- Collaborate with interdisciplinary teams to address pressing scientific questions related to stratospheric sciences.
- Publish research findings in peer-reviewed journals and present at scientific conferences.
- Stay up to date with the latest developments in atmospheric science and contribute to NIA and NASA's missions.

Requirements:

- Ph.D. in Atmospheric Science, Earth Science, or a related field.
- Strong background in atmospheric science, climate dynamics, or a relevant subfield.
- Proficiency in data analysis using software tools such as IDL, Python, or similar.
- Experience with atmospheric modeling, satellite data analysis, or airborne observations is advantageous.
- Strong analytical, problem-solving, and communication skills.
- Ability to work independently and collaboratively within an International and diverse research team.
- Open to travel internationally.
- A passion for advancing our understanding of Earth's atmosphere and climate.

Desired Skills:

- Experience with atmospheric aerosol research.
- Experience with Artificial Intelligence to analyze data, model.
- Experience with satellite data analysis.

Interested candidates should apply via NIA's career opportunities site located at www.nianet.org under the 'About NIA' tab. Please include a letter of introduction, resume, and the names and contact information of three current references.

NIA, located near NASA Langley Research Center in Hampton Virginia, is a non-profit research and graduate education institute created to perform aerospace and atmospheric research, develop new technologies for the nation, and help inspire the next generation of scientists and engineers.

NIA #1 in the ranked mid/large sized companies 2021 Top 50 Best Nonprofits to work for in the U.S.!

NIA is an equal opportunity/affirmative action employer and does not discriminate against any applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic prohibited under Federal, State or local laws.