

## Planetary atmospheric chemistry postdoctoral position

August 09, 2016 -- Jason.Barnes **Department:** Department of Applied Physics and Applied Mathematics

**City:** New York

**State/Province:** NEW YORK

**Category:** Atmospheres

Exoplanets

**Country:** USA

**Contact Person:** Anthony Del Genio

**Institution:** Columbia University

**Application Due Date:** Saturday, October 1, 2016

**Web Link:** <http://academicjobs.columbia.edu/applicants/Central?quickFind=63245> [1]

The Department of Applied Physics and Applied Mathematics at The Fu Foundation School of Engineering and Applied Science of Columbia University in the City of New York invites applications for a Postdoctoral Research Scientist position in the area of modeling atmospheric chemistry and aerosol processes over a wide range of oxidation-reduction states and their interactions with the climates of Solar System rocky planets and rocky exoplanets in a three-dimensional general circulation model. This is a full-time position for a 2-year period.

The successful candidate will participate in a groundbreaking NASA research initiative, the Nexus for Exoplanet System Science (NExSS; <https://nexss.info> [2]), with an interdisciplinary team of scientists from the Goddard Institute for Space Studies (GISS), the Goddard Space Flight Center, Columbia University, and other institutions. The broad goals of the team's research are to address questions about the habitability of the past climates of Earth, Mars, and Venus, to use these insights to assess the habitability of exoplanet climates, and to inform the design of future spacecraft missions for detecting and characterizing habitable exoplanets. The candidate will be expected to perform original research, present the results of the research at scientific meetings, and publish first-author papers in peer-reviewed journals. The candidate will be resident at NASA GISS, located in New York City near the Morningside Campus of Columbia University.

Successful applicants will have a PhD. in atmospheric science, chemistry, planetary science, astrobiology, or a similar field. Expertise in atmospheric chemistry and a willingness to become involved in chemistry-aerosol parameterization development are required, but the broad scope of the research initiative allows for many possible research directions and collaborations in studying atmospheric composition impacts on a variety of climates using the model. Strong mathematics and programming skills are also a requirement.

To apply, please go to [academicjobs.columbia.edu/applicants/Central?quickFind=63245](http://academicjobs.columbia.edu/applicants/Central?quickFind=63245)

**Position Type:** Post-doctoral or Fellowship

**Contact Email:** [Anthony.D.DelGenio@nasa.gov](mailto:Anthony.D.DelGenio@nasa.gov) [3]

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**Source URL:** <https://dps.aas.org/content/planetary-atmospheric-chemistry-postdoctoral-position>

**Links**

[1] <http://academicjobs.columbia.edu/applicants/Central?quickFind=63245>

[2] <https://nexss.info>

[3] <mailto:Anthony.D.DelGenio@nasa.gov>