

**Opportunity Title:** Aviation Emissions & Aerosol Science

**Opportunity Reference Code:** 0035-NPP-MAR26-GRC-Interdisc

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0035-NPP-MAR26-GRC-Interdisc

**How to Apply** All applications must be submitted in [Zintellect](#)

Please visit the NASA Postdoctoral Program website for application instructions and requirements: [How to Apply | NASA Postdoctoral Program \(oua.org\)](#).

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

**Application Deadline** 3/1/2026 6:00:59 PM Eastern Time Zone

**Description** About the [NASA Postdoctoral Program](#)

The [NASA Postdoctoral Program \(NPP\)](#) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

**Description:**

The primary focus of this research is to advance combustor technologies and increase our understanding of their overall impact on climate and human health. This includes the use of sustainable aviation fuels and understanding their role in the decarbonization of aviation fuels. Aviation particulate emissions impact human health and play a key role in contrail formation. Understanding the overall impact on emerging combustor technologies is of critical importance. Our team is seeking someone with background in Aerosol Science with an interest in Aviation and the Atmospheric Impact of Aviation.

This candidate will participate in combustion flame tube experiments through extractive aerosol measurements and gain hands on experience with aviation aerosols. The candidate will collect, analyze, and research the results from the combustion tests and collaborate with NASA Researchers and external partners. The candidate will be responsible for optimization of extractive sampling techniques in various high- and low-pressure environments. There will be the opportunity to participate in NASA GRC collaborations with industry and academia, as well as our On-Wing Emissions team at NASA LaRC. Combustor and engine emissions measurements will be made on the ground, in high-pressure combustor test cells, in simulated altitude environments, and possibly in flight.



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The work includes partnerships with industry and other government agencies with combustor, engine, aircraft ground and flight tests and supports the U.S. Climate Action Plan and Sustainable Flight National Partnership.

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**Field of Science:** • Interdisciplinary/Other

**Advisors:**

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**Questions about this opportunity?** Please email [npp@orau.org](mailto:npp@orau.org)

**Point of Contact** [Mikeala](#)

**Eligibility Requirements**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Doctoral Degree.

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