

**Opportunity Title:** Advanced Mirror Technology for Astrophysics Telescopes

**Opportunity Reference Code:** 0013-NPP-NOV26-MSFC-TechDev

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

**Reference Code** 0013-NPP-NOV26-MSFC-TechDev

**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** 11/1/2026 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:**

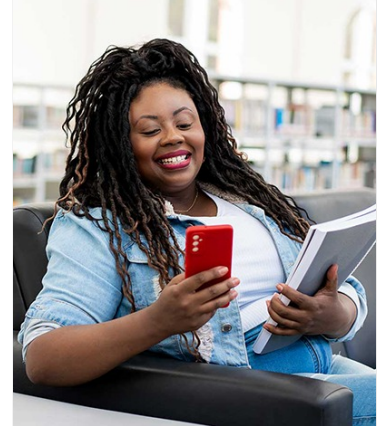
Marshall Space Flight Center (MSFC) leads and collaborates with other NASA Centers, universities and industry partners to implement NASA Astrophysics missions from X-Ray to Far-Infrared.

Free-Form and aspheric optical surfaces are revolutionizing telescope design by enabling wide field imaging in compact packages. The advantages for potential Astrophysics science missions are telescopes and instruments with smaller volume, fewer optical components and lower total mass. But, these new designs would be purely theoretical without precision fabrication and test technology.


This opportunity has two objectives:

1. Develop processes and technologies to manufacture free-form and aspheric optical surfaces for potential grazing incidence (X-Ray) and normal incidence ultraviolet, optical and infrared (UVOIR) to far-infrared (Far-IR) telescopes which could be manufactured using MSFC's precision machining infrastructure.
2. Develop processes and technologies to absolutely characterize the zero-gravity shape of large-aperture free-form and aspheric optical surfaces.

The prospective applicant should contact Dr. H. Philip Stahl



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(h.philip.stahl@nasa.gov) well in advance of developing the proposal to ensure alignment of the idea with opportunity objectives. Please include a Curriculum Vitae (CV) and a brief statement of interest that identifies the primary topic of interest from those listed above. Other related topics will also be considered. The candidate will then be put in touch with the appropriate research mentor who will coordinate with the candidate on the proposal concept.

**Location:**

Marshall Space Flight Center  
Huntsville, Alabama

**Field of Science:** Technology Development

**Advisors:**

Philip H. Stahl  
h.philip.stahl@nasa.gov  
256-544-0445

**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiiir/export-control>.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

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

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

**Eligibility Requirements** • **Degree:** Doctoral Degree.