

**Opportunity Title:** Next-Generation Precision Cosmology  
**Opportunity Reference Code:** 0180-NPP-NOV23-JPL-Astrophys

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

**Reference Code** 0180-NPP-NOV23-JPL-Astrophys

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

**Description** The next generation of cosmological surveys including the WFIRST and Euclid space telescopes, the Large Synoptic Survey Telescope, and the Dark Energy Spectroscopic Instrument will provide unprecedented constraints on the nature of dark energy and the evolution of the universe. Important problems remain to be solved before we will be able to take full advantage of the power of these future surveys, however; these range from improvements in theoretical modeling of the primary observables through parameter inference and measurement to accurate calibration of the instruments themselves. A successful applicant to this position will work with Dr. Eric Huff and other members of the large and active cosmology group at JPL on developing new methods for getting accurate cosmology out of future surveys, and on obtaining the best possible constraints on cosmology from existing data.

**References:**

Shapiro, C., Smith, R., Huff, E., et al. 2018, arXiv:1801.06599 Sheldon, E.S., & Huff, E. M. 2017, ApJ, 841, 24 Suchyta, E., Huff, E.~M., Aleksic, J., et al. 2016, MNRAS, 457, 786 Troxel, M.A., MacCrann, N., Zuntz, J., et al. 2017, arXiv:1708.01538

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:**Astrophysics

**Advisors:**

Eric M. Huff  
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**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/oiir/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



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pending status

**Eligibility Requirements**

- **Degree:** Doctoral Degree.