

Opportunity Title: Advances in Satellite Remote Sensing of Ocean Phytoplankton and Biogeochemistry

Opportunity Reference Code: 0266-NPP-JUL25-GSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0266-NPP-JUL25-GSFC-EarthSci

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 \(orau.org\)](#).

A complete application to the NASA Postdoctoral Program includes:

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

Application Deadline 7/1/2025 6:00:59 PM Eastern Time Zone

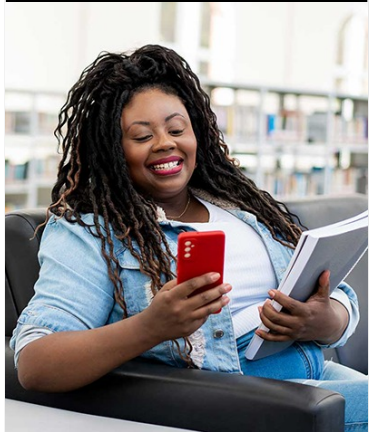
Description About the [NASA Postdoctoral Program](#)

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:

This opportunity is closed to applicants who are Senior Fellows (5-years or more past PhD).

The objectives of this research are to develop advanced ocean color algorithms that take advantage of hyperspectral and ultraviolet capabilities on NASA's upcoming ocean color satellite missions, PACE, GLIMR and SBG, to infer biological and biogeochemical constituents from the derived optical properties. Specifically, the aims are to develop algorithms to retrieve from PACE, GLIMR, and/or SBG remote sensing reflectance, (1) ocean phytoplankton community composition targeting the major taxonomic groups, (2) dissolved and particulate organic carbon concentrations in coastal ocean and estuarine systems, (3) global ocean particulate inorganic carbon, and (4) global ocean suspended particulate matter. Other critical component of this research include determining uncertainties of these ocean remote sensing data products and derived geophysical trends. Prime considerations include the role of marine primary production and dissolved/particulate organic matter in coastal and global carbon budgets and the couplings between physical and biogeochemical processes. Global and regional time-series data are used for investigating the coupling between physical and biogeochemical processes in time scales of days to years. Potential research areas include ship- and laboratory-based sample analysis for development of in situ bio-optical algorithms for ocean color satellite retrieval of surface layer dissolved and particulate organic carbon constituents including chromophoric dissolved organic matter (CDOM), terrigenous organic matter, black carbon, phytoplankton community composition, and productivity. Investigations focusing on polar regions are of particular interest including those relevant to the NASA OBB Arctic-COLORS planned field campaign.



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder 



Opportunity Title: Advances in Satellite Remote Sensing of Ocean Phytoplankton and Biogeochemistry

Opportunity Reference Code: 0266-NPP-JUL25-GSFC-EarthSci

Field of Science: Earth Science

Advisors:

Antonio Mannino
antonio.mannino-1@nasa.gov
(301) 286-0182

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 pending status

Questions about this opportunity? Please email npp@orau.org

Point of Contact [Mikeala](#)

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