

Opportunity Title: Data science opportunities with IMPACT

Opportunity Reference Code: 0009-NPP-MAR22-MSFC-EarthSci

Organization National Aeronautics and Space Administration (NASA)

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Application Deadline 3/1/2022 6:00:00 PM Eastern Time Zone

Description [Interagency Implementation and Advanced Concepts Team \(IMPACT\)](#) at Marshall Space Flight Center (MSFC) supports the NASA Earth Science Data Systems program. Recognizing that Earth observation data are useful for various applications, the IMPACT seeks to integrate NASA's Earth observation data into the decision-making. In addition, the IMPACT team ensures these data will continue to be used in new ways by monitoring trends across data science and information technology fields in order to more effectively develop new solutions for Earth science data management and dissemination. IMPACT research focuses on the application of novel computational methods and information technology to the acquisition, storage, processing, discovery, interchange, analysis and visualization of Earth Science data and information.

Available NPP opportunities within the MSFC IMPACT group include:

- Development of innovative data science application for information extraction from large data archive
- Assessment of new and disruptive technologies to enhance the efficiency of NASA Earth science data systems
- Development of machine learning techniques to solve complex Earth science problems computing technologies
- Improvement in user experience with NASA data and services to lower barriers of entry for all users to effectively leverage complex scientific datasets
- Development of large-scale data analysis and processing pipelines in cloud computing environment

The prospective applicant should contact Manil Maskey (manil.maskey@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: Earth Science

Advisors:

Manil Maskey
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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;
- Foreign nationals who are in the U.S. at the time of application and on a valid J1 visa; and,
- Foreign nationals, asylees or refugees in the U.S. at the time of application with a valid EAD card and pending I-485 or I-589 forms.

These temporary eligibility limitations have been put in place due to inaccessible U.S. consulates and travel restrictions resulting from the COVID-19 pandemic. Foreign nationals have made many substantive contributions to NASA, as well as to the greater scientific community throughout the life of the NPP. Therefore, we look forward to the time when the program will be open, once again, to all qualified scientists and engineers.

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