National Aeronautics and Space Administration

DEVELOP YOUR CAREER

with NASA's Applied Sciences' Capacity Building

DEVELOP National Program

Enhance technical and professional skills

Introduction to NASA Earth observation capabilities

Gain research and scientific communication experience

What is DEVELOP?

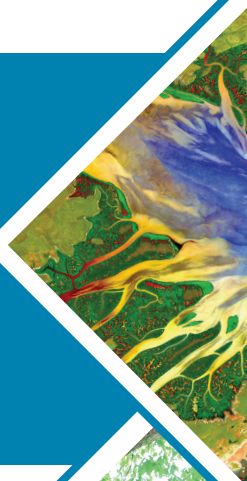
DEVELOP addresses environmental and public policy issues through interdisciplinary research projects that apply the lens of NASA Earth observations to community concerns around the globe. Bridging the gap between NASA Earth Science and society, DEVELOP builds capacity in both participants and partner organizations to better prepare them to address the challenges that face our society and future generations.

Teams of DEVELOP participants partner with decision makers to conduct rapid feasibility projects that highlight relevant applications of Earth observing missions, cultivate advanced skills, and increase understanding of NASA Earth science data and technology.

About Projects

DEVELOP projects apply Earth observations and remote-sensing technology to application areas that highlight NASA Earth observation capabilities relative to environmental issues for enhanced policy and decision making. These areas include:

- Health & Air Quality
- Disasters
- Water Resources
- Energy
- Transportation & Infrastructure
- Urban Development
- Ecological Forecasting
- Agriculture



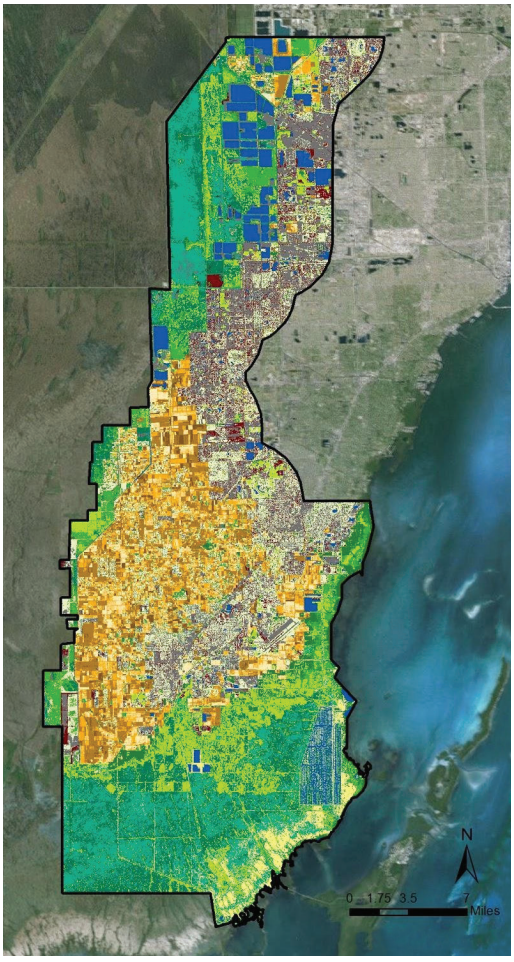
How to Apply

Anyone 18 and over, who is interested in pursuing experience in the Earth sciences and remote sensing, is welcome to apply. This includes currently enrolled students, recent college graduates, early and transitioning career professionals, and current and former U.S. Military service members. Applicants must have a minimum 3.0 GPA on a 4.0 scale at their current or last institution of higher learning and the ability to transport themselves to and from the DEVELOP location. Apply online at **https://develop.larc.nasa.gov/apply.php**.

Spring 2018 Term

Term Dates: January 22, 2018 - March 30, 2018
Applications Accepted Online: August 28, 2017 - October 6, 2017

DEVELOP
SCIENCE SERVING SOCIETY



Agriculture (Very Dense)
Agriculture (Dense)
Agriculture (Moderate)
Agriculture (Sparse)
Very Dense Vegetation
Dense Vegetation
Shrubs
Pasture/Grass
Wetlands (Wet Prarie)
Wetlands (Glades Marsh)
Sand
Barren
Impervious
Water

Recent Project Example

Miami-Dade Ecological Forecasting

Miami is a city of rapid and constant change, some of which is at the expense of its neighboring wetland area, the Everglades. As the largest subtropical ecosystem in the United States, the Everglades are located along avian migratory routes and are home to many endemic plant and animal species. The protection and restoration of this region is critical, not only for ecological reasons, but also for the protection of water recharge resources for future urban water consumption by the 2.5 million residents of Miami-Dade County. The Miami-Dade County Parks, Recreation and Open Spaces Department has embarked on an ambitious planning effort, in partnership with The Trust for Public Land, to develop a Western Greenway system of trails and recreational destinations along the county's western edge. To assist with Greenway planning efforts, DEVELOP used NASA satellite imagery to derive a vegetation index and a land cover classification map which not only served as model inputs, but also provided tree cover parameters to support specific design and greenway alignment. The results identified the most suitable land for recreation, conservation, and agritourism, with a particular focus on the southern segment, where the majority of agricultural lands were located. This project contributed to decision support tools for planning green infrastructure corridors to preserve the Everglades.

"The NASA DEVELOP team provided valuable analysis, data, mapping, and field work to the Miami-Dade Western Greenway planning project. Their contributions assisted the decision-making process and were used to inform the greenway routing."

Alissa Turtletaub,
Miami-Dade County Parks, Recreation and Open Spaces Department

CURRENT LOCATIONS

Interested? Apply to participate at one of the DEVELOP locations. For more information on eligibility and a full list of locations, visit us online at https://develop.larc.nasa.gov.

www.nasa.gov
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