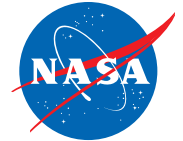


National Aeronautics and
Space Administration



DEVELOP FOR VETERANS

with NASA's Applied Sciences' Capacity Building
DEVELOP National Program



Apply existing skills to a
civilian environment



Bridge the gap between military
service and your next career



Diversify resume and professional network
with a respected civilian organization

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 fresh 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:



Climate



Ecological
Forecasting



Agriculture



Oceans



Weather



Cross
Cutting



Disasters



Energy



Health &
Air Quality



Water
Resources

How to Apply

Anyone 18 and over who is interested in pursuing experience in the Earth sciences and remote sensing, including currently enrolled students, recent college graduates, early and transitioning career professionals, and current and former U.S. Military service members are eligible to apply. 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 <http://develop.larc.nasa.gov/apply.html>

Have Questions?

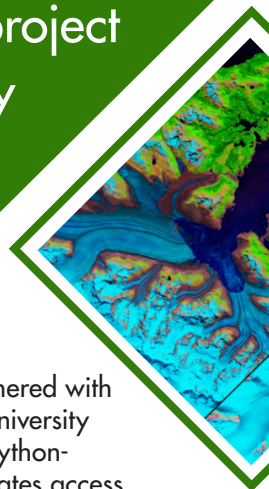
Please contact us with any questions about the program at NASA-DL-DEVELOP@mail.nasa.gov or (757) 864-3761.



DEVELOP

IMPACTFUL PROJECTS

Here is a recent project
completed by
DEVELOP



Alaska Disasters

Sea ice is rapidly decreasing in the Arctic, encouraging a surge in maritime transportation and energy exploration in the region. This increase in traffic, combined with challenges unique to an Arctic environment, escalates the risk of an oil spill. In addition to human activity, a significant amount of oil enters the marine environment through natural oil seeps. The United States Coast Guard (USCG) is the lead response agency for oil spills in U.S. coastal waters. Ancillary responsibilities include monitoring natural oil seeps in order to rule out anthropogenic sources. Complexities inherent to an Arctic oil spill – ice-infested waters, strong currents, cloud cover, and extended darkness – require a combination of sensors operating across the electromagnetic spectrum to accurately portray the incident.

NASA DEVELOP partnered with the USCG Auxiliary University Program to create a Python-based tool that automates access to optical and radar imagery. The project incorporated optical data from the NASA Earth Observing Systems - Aqua, Terra and Landsat 8 - and radar data from the European Space Agency platform, Sentinel-1. Additionally, the study constructed a natural oil seeps map using ArcGIS 10 by spatially enabling data discovered in historical literature. The resultant dataset was injected into the interactive Arctic Emergency Response Management Application to facilitate fast visualization and coordination for emergency responders. These products will be used by the USCG to improve strategic oil spill response planning for the northern coast of Alaska.



▲ Natural Oil Seeps ● Exploration Wells

DEVELOP participants work on dozens of innovative and impactful projects across the country and around the world each year.

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 www.develop.larc.nasa.gov/about.

