





The Director, Office of Budget, Office of International Science & Engineering, Finance, & Award Management, etc.

Directorate for Biological Sciences (BIO)

Directorate for Geosciences (GEO)

Directorate for **Engineering (ENG)**

Social, Behavioral & Economic Sciences (SBE)

Computer & Information
Science & Engineering (CISE)

Directorate for Education & Human Resources (EHR)

Directorate for

Mathematical & Physical

Sciences (MPS)

Technology, Innovation and Partnerships (TIP)

Our mission:

To fund the development of knowledge and technological innovations to:

- Understand and adapt to the changes in our earth, ocean, and atmosphere,
- Accelerate the societal benefits of our investments, and
- Train a diverse and inclusive geosciences workforce.



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Earth Sciences (EAR)

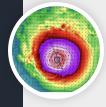


Ocean Sciences (OCE)

Directorate for

Fechnology, Innovation and

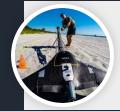
Partnerships (TIP)



Atmospheric and Geospace Sciences (AGS)



Polar Programs (OPP)



Research, Innovation,
Synergies, and Education
(RISE)

Earth Sciences (EAR)



Structure, composition, and evolution of the Earth including processes from the tree canopy, through soils, the crust, mantle, and core

Supports field work, theoretical and computational work, large and small experiments, and infrastructure

Earth Sciences (EAR)

Disciplinary Programs

- Geobiology & Low-Temperature Geochemistry
- Geomorphology & Land-Use Dynamics
- Geophysics
- Retrology & Geochemistry
- Sedimentary Geology & Paleobiology
- Tectonics

Integrated Activities

- Education & Human Resources
- Instrumentation & Facilities
- Frontier Research in Earth Sciences (FRES)
- Paleo Perspectives on Present and Projected Climate (P4CLIMATE)
- EAR Postdoctoral Fellowships
- Geoinformatics

Office of Polar Programs (OPP)



Antarctic Research Programs

Oceans and Atmospheric Sciences Glaciology

Earth Sciences

Organisms and Ecosystems

Astrophysics and Geospace



Arctic Research Programs

Natural Sciences

System Science

Observing Network

Social Sciences

Research Coordination and Policy Support



OPP Research Programs

Polar Cyberinfrastructure
Data & Sample Reuse
Polar Education & Outreach
Postdoctoral Fellows Program

Office of Polar Programs (OPP)



Research and educational initiatives in all scientific fields relevant to study of (and in) Antarctica and the Arctic.

Provides logistical and operational support for work in Antarctica and in remote locations across the Arctic.

Atmospheric and Geospace Sciences (AGS)

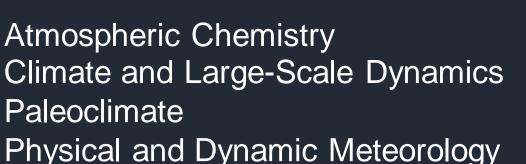


Research to understand processes including space weather, tropospheric weather, climate, and air quality.

Atmospheric and Geospace Sciences (AGS)



Atmosphere Section





NCAR/Facilities Section

Education and DEI Programs in AGS National Center for Atmospheric Research (NCAR) User-requestable observing and laboratory facilities



Geospace Section

Aeronomy (upper atmosphere)
Geospace Facilities
Magnetospheric Physics
Solar Terrestrial
Space Weather

Ocean Sciences (OCE)



Research on the oceans and their interactions with the Earth and atmosphere.

Ocean Sciences (OCE)



Ocean Section

Biological Oceanography Physical Oceanography



Marine Geosciences Section

Chemical Oceanography
Marine Geology & Geophysics



Integrative Programs Section

Ocean Drilling

Ocean Education

Ocean Observatories Initiative

Oceanographic Instrumentation & Technical Service

Oceanographic Technology & Interdisciplinary Coordination

Ship & Submersible Support

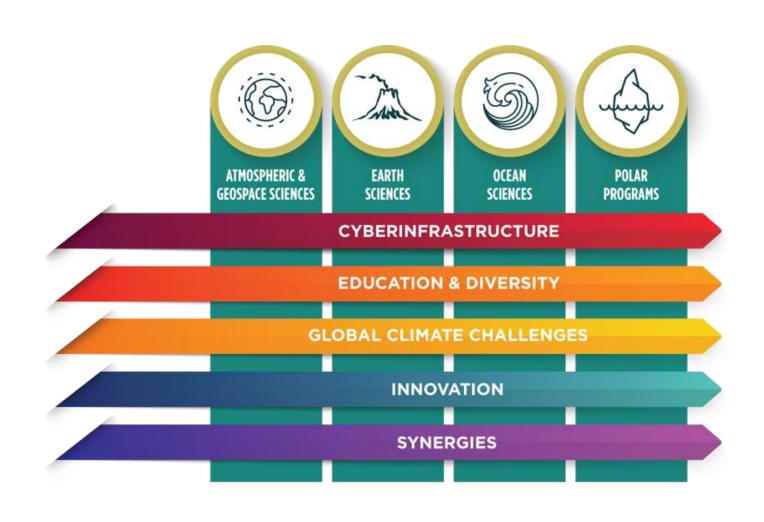
Ship Operations

Research, Innovation, Synergies, & Education (RISE)



Partnership projects in research and education that cut across traditional boundaries within the geosciences.

Research, Innovation, Synergies, & Education (RISE)



GEO Facilities

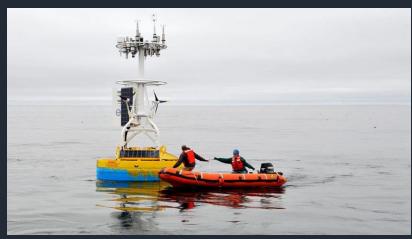
NCAR



Polar Facilities



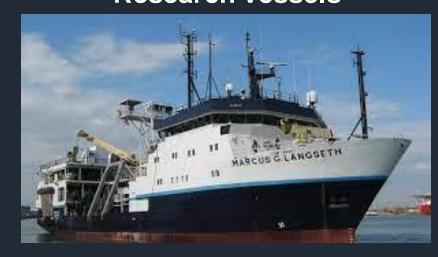
Ocean Observatories



Seismic and Geodetic



Research Vessels



Repositories



"CHIPS and Science" Empowers Geoscience Innovation



Hazards Risk and Resilience Research



Climate Change Research + Education



Critical Minerals and Natural Resources



Unmanned Aircraft and Marine Technologies/Al/ Observation Platforms

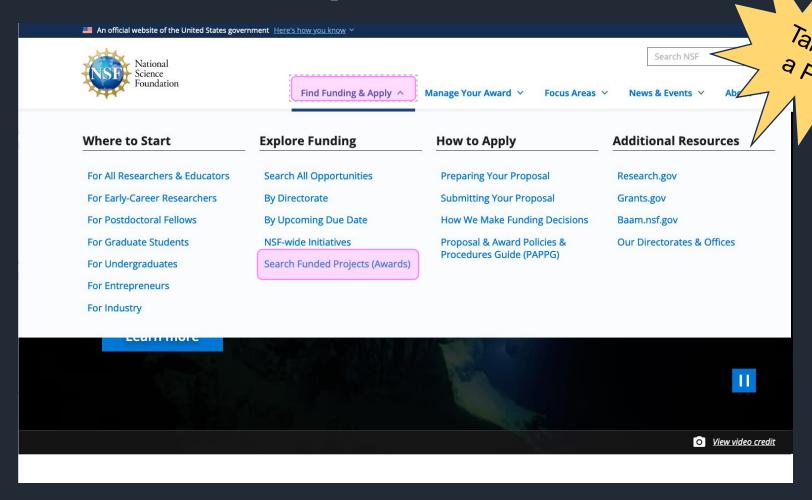


Clean Water, Precision Agriculture, + Food/Energy/Water



GEO Education and Career Access

Not sure where you fit?



- search by keyword
- read abstracts
- see which programs funded work like yours

nsf.gov



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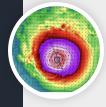


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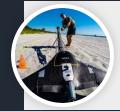
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Career Trajectory Programs

Graduate Research Fellowships Program (GRFP)

5-year fellowship; includes 3 years of financial support and an education allowance

Postdoctoral Fellowship Programs

• 2 years, details vary by Division/Office

Faculty Early Career Development Program (CAREER)

- 5 years and \$500K +
- Integrated research and education by untenured ECRs NSF 22-586

Mid-Career Advancement Proposals (MCA)

 Protected time + resources to gain new skills in mentored partnership NSF 22-603 nsfgrfp.org



Postdoctoral Fellowships



CAREER Awards



Mid-Career Advancement Awards



Geoscience Lessons for and from Other Worlds (GLOW)

Extraterrestrial investigations to understand Earth or vice versa

Critical Minerals Research (GEO-CM)

 Research on formation, characterization, development, and separation of critical materials and the impacts on the environment and society

GEO EMpowering BRoader Academic Capacity and Education (GEO-EMBRACE)

Research at non-R1 institutions; Two tracks, 2 + 4 years

Research Instrumentation & Infrastructure

- Division-specific programs
- NSF-MRI (Major Research Instrumentation)
- NSF-Midscale Research Infrastructure (MSRI-1 and MSRI-2)

GLOW NSF 22-032

GEO-CM

NSF 23-057

EMBRACE

NSF 23-617

Infrastructure/
Instrumentation



Lead Agency Agreements

Provide a pathway for joint proposals with foreign colleagues

Current active LAOs: GB United Kingdom

CH Switzerland

Tw Taiwan

IE Ireland

DE Germany

EU European Union

TI Israel



(not the only way to collaborate internationally!)







Intellectual Merit

the potential to advance knowledge



Broader impacts

the potential to benefit society

Broader Impacts: Benefitting Society

Teaching, training, and learning (undergrads + grad students)

Broaden participation of underrepresented groups

Build or enhance partnerships (local, international, or with other agencies)

Broad dissemination and public outreach

Enhance
infrastructure (labs,
equipment, + work
in developing
countries)

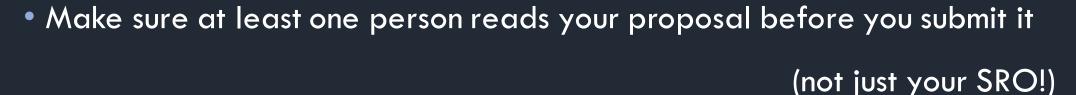
Local impacts
(policies @ federal,
state, local level)

Broader Impacts: Benefitting Society



Some Advice

- Maps/figures/legends/captions should be clearly readable
- Lay out a clear work plan, timeline, and role for each participant
- Develop a realistic and well-justified budget
- Ask for money for your Broader Impact activities



Decision-making and Portfolio Balance

Potential for transformative impact in both science + society

Priority or timeliness of the area of research

Demographics of the PI + student population

Diversity of institution types

Geographic diversity

Pl career stage (early, mid, senior)

International partnerships

Record of mentorship



+ many other things depending on the program goals



