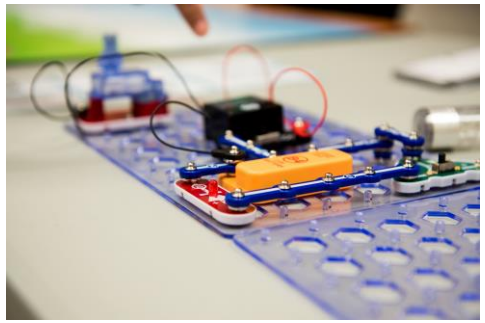
U.S. DEPARTMENT OF ENERGY | Office of Science

Reaching a New Energy Sciences Workforce (RENEW)

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Reaching a New Energy Sciences Workforce (RENEW)

Building foundations through undergraduate and graduate training opportunities for students and institutions historically underrepresented in the SC research portfolio

- RENEW aims to build foundations for Office of Science (SC) research and training at institutions historically underrepresented in the SC research portfolio; and expands pathways and opportunities for STEM training for students not currently well represented in the U.S. science and technology (S&T) ecosystem.
- RENEW leverages DOE's national laboratories, SC's unique user facilities, and other research infrastructures to provide undergraduate and graduate training opportunities.
- The hands-on experiences gained through the RENEW initiative will open new career avenues for the participants, forming a nucleus for a future pool of talented young scientists, engineers, and technicians with the critical skills and expertise needed for the full breadth of SC research activities.

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- SC conducted outreach and listening sessions in 2021 on barriers to participation in SC opportunities to inform FY 2022 FOAs

- FY 2022 FOAs are piloting models of support that directly address barriers to participation in SC supported fields of research; models will be evaluated.

- FY 2023 doubles investment and commitment to advance discovery and innovation by increasing the diversity of individuals and institutions supported

FY 2022 RENEW FOAs — Announced May 25, 2022

SC Program Office	Scientific/Technical Focus Areas	Eligibility (lead/partnering)
Advanced Scientific Computing Research (ASCR)	Quantum Computing and Quantum Networking	Open to all Institutions; Multi-institution teams; emphasis on underrepresented institutions
Biological and Environmental Research (BER)	Earth and Environmental Systems Science	Open to all Institutions; emphasis on underrepresented institutions
Basic Energy Sciences (BES	Basic and Fundamental Science to Enable Clean Energy; Basic and Fundamental Science to Transform Low-Carbon Manufacturing	Minority Serving Institutions (MSIs) and non-R1 institutions
DOE Isotope Program (DOE IP)	Isotope R&D and Production	MSIs
Fusion Energy Sciences (FES)	Fusion Energy Sciences Research Topics	Multi-institutional teams that must include an MSI or a non-R1 institution
High Energy Physics (HEP)	High Energy Physics Research Topics	Open to all Institutions; emphasis on underrepresented institutions

Nuclear Physics (NP) RENEW Pilot Year - Traineeships

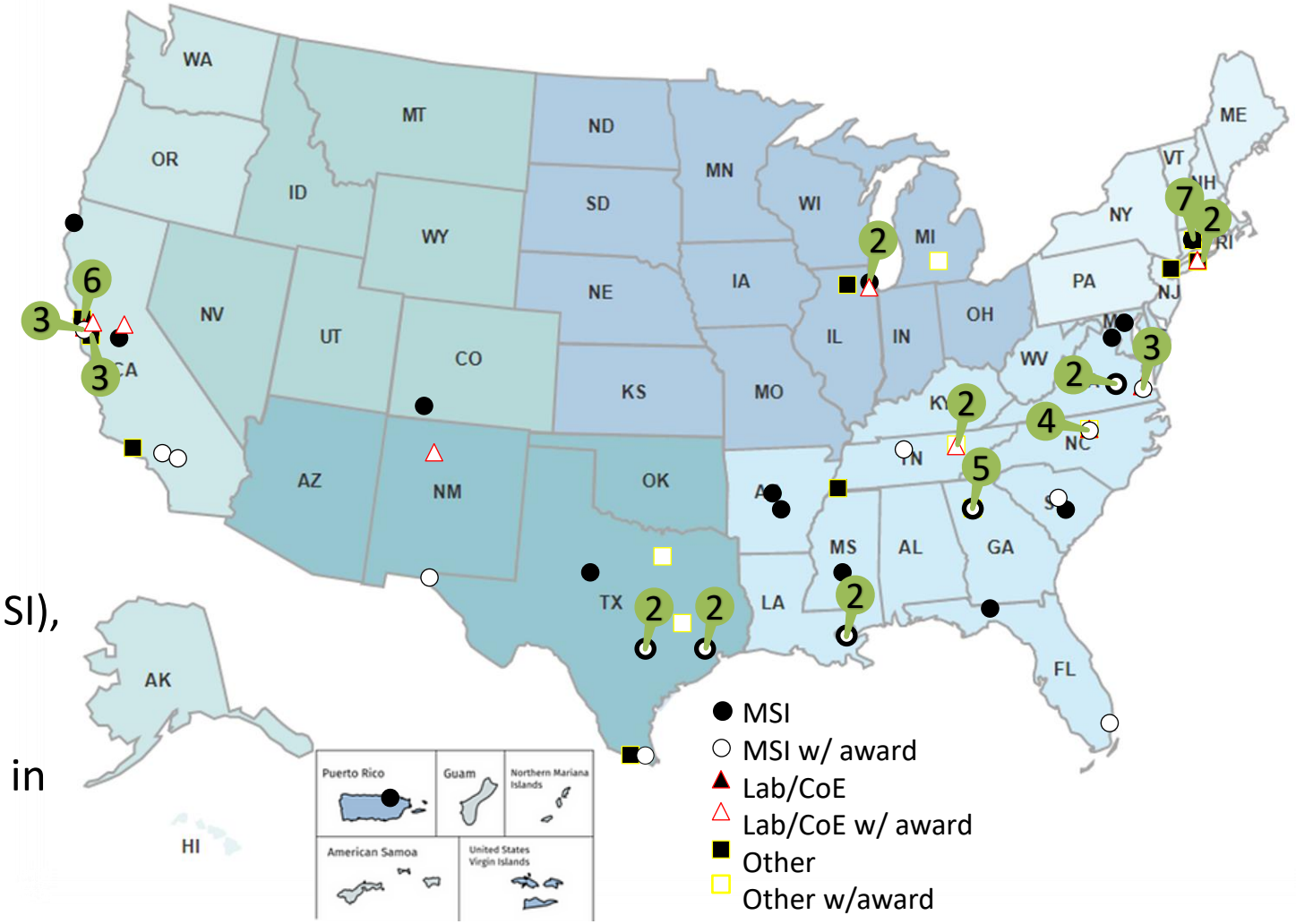
NP traineeship award recipients include:

- 18 MSIs,
- 10 other colleges/universities,
- 5 DOE laboratories

MSI award recipient distinctions:

- 9 Hispanic Serving Institutions (HSIs),
- 8 Historically Black Colleges & Universities (HBCUs),
- 5 Asian American, Native American, and Pacific Islander Serving Institutions (AANAPISI),
- 1 Predominantly Black Institution (PBI)

All other institutions on the map are involved in the traineeship program as recruitment sites (38), Co-PIs (9), and/or hosts (7).



Office of Workforce Development for Teachers and Scientists

SC WDTS support over 1,400 research opportunity for undergraduates, graduate students, and faculty at DOE National Laboratories each year.

WDTS RENEW Efforts:

- Significantly expand outreach to students and faculty from Minority Serving Institutions (MSIs), Community Colleges, and under-represented groups.
- Develop new pathways for students and faculty from non-R1 MSIs, Community Colleges, and individuals from underrepresented groups into STEM training programs, including pathways to technical summer schools for high school and early undergraduate students and extended research engagement of faculty research collaboration with DOE national labs.
- Programs promote equitable access to STEM training opportunities, build science identity, and cultivate sense of belonging.
- Support the assessment and evaluation for SC-RENEW awards.

Reaching a New Energy Sciences Workforce (RENEW)

https://science.osti.gov/Initiatives/RENEW

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FY 2022 RENEW Funding Opportunity Announcements

SC Program Office	Scientific/Technical Focus Areas	Eligibility (lead/partnering)	FOA/ webinar links
Advanced Scientific Computing Research (ASCR)	Quantum Computing and Quantum Networking	Open to all Institutions; Multi-institution teams; emphasis on underrepresented institutions	▪ ASCR-RENEW FOA ▪ Networking Events
Biological and Environmental Research (BER)	Earth and Environmental Systems Science	Open to all Institutions; emphasis on underrepresented institutions	▪ RENEW-Earth and Environmental Sciences FOA ▪ Webinar Slides
Basic Energy Sciences (BES	Basic and Fundamental Science to Enable Clean Energy; Basic and Fundamental Science to Transform Low-Carbon Manufacturing	Minority Serving Institutions (MSIs) and non-R1 institutions	▪ BES-RENEW FOA ▪ DOE Labs Points of Contact ▪ Webinar Slides ▪ Webinar Recording
DOE Isotope Program (DOE IP)	Isotope R&D and Production	MSIs	▪ RENEW: Isotope Training, Research, and Development at MSIs FOA
Fusion Energy Sciences (FES)	Fusion Energy Sciences Research Topics	Multi-institutional teams that must include an MSI or a non-R1 institution	▪ FES-RENEW FOA ▪ Webinar Slides ▪ Webinar Recording
High Energy Physics (HEP)	High Energy Physics	Open to all Institutions; emphasis on	▪ RENEW-HEP FOA