



Program Overview

MIT/LL Beaver Works 2021 Student Cohort

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What Encompasses DoD STEM?



DoD STEM is inclusive of Department-wide efforts that address near- to mid-term (postsecondary) STEM workforce needs, and long-term (K-16 education & outreach) STEM talent development through a variety of educational and work-experiential opportunities across the K-Postdoc continuum.



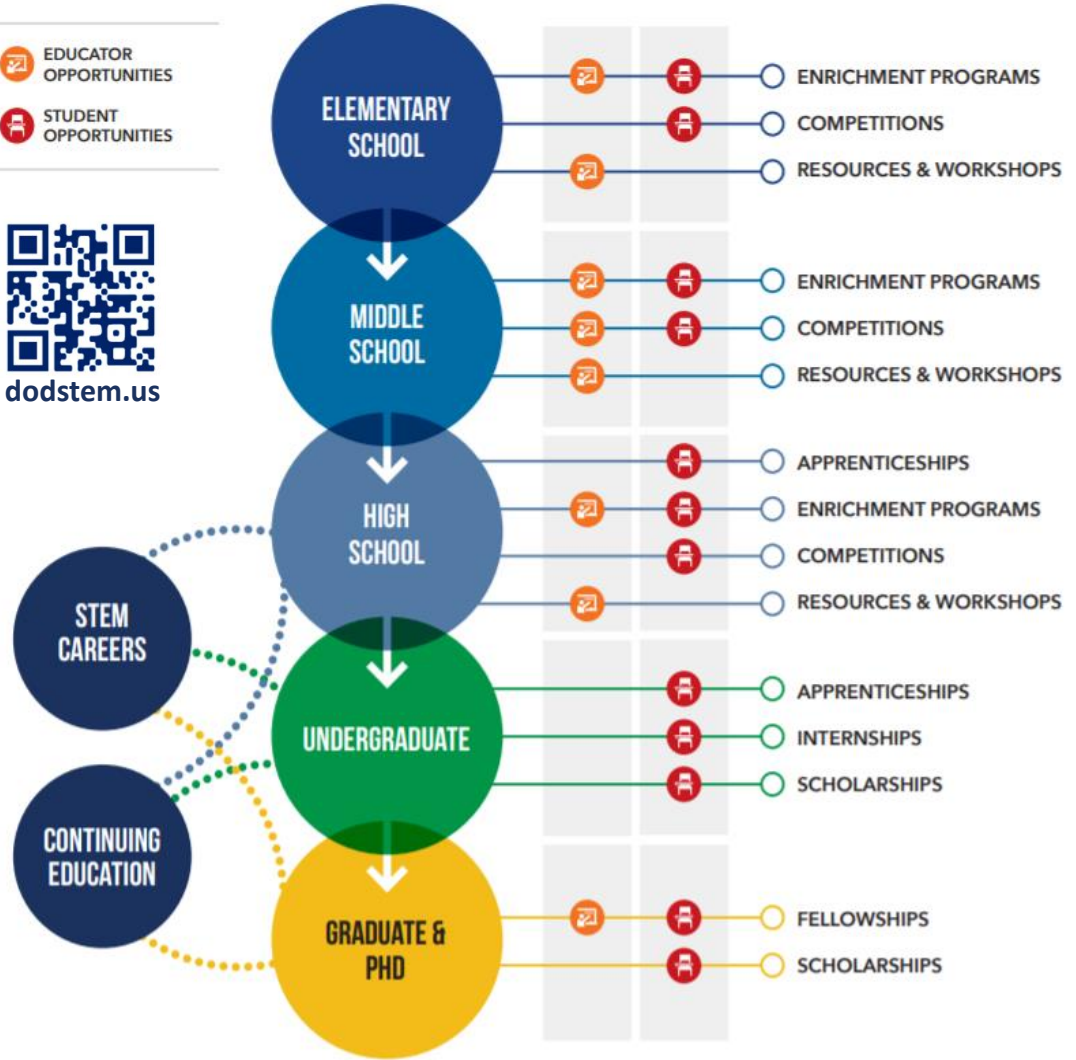
Continuum of Programs Offered Through DoD STEM

EDUCATOR OPPORTUNITIES

STUDENT OPPORTUNITIES

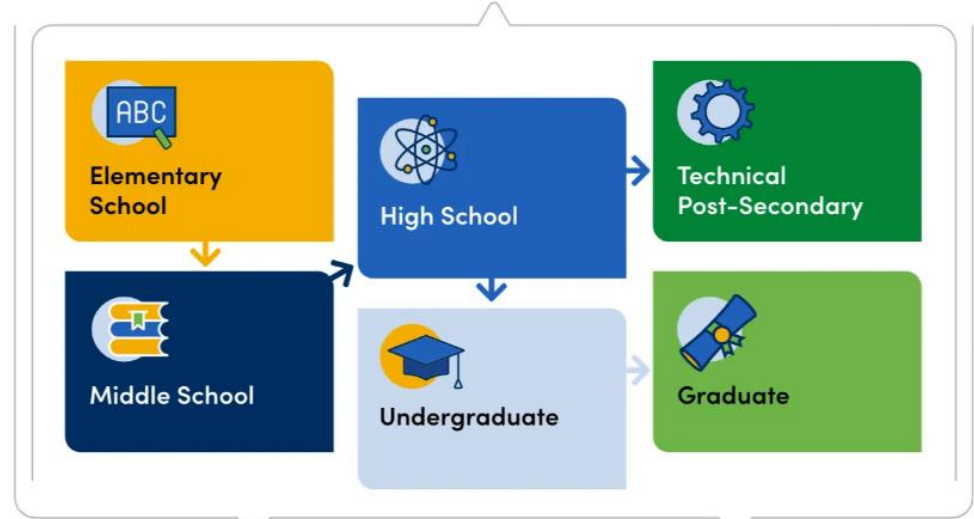


dodstem.us



800,000 to 1,200,000

Students participate in DoD programs on an annual basis





Naval Horizons High School Challenge 2021

- Naval Horizons introduces students to cutting-edge STEM topics that impact the U.S. Navy & Marine Corps, including: autonomy, oceanography, cybersecurity, undersea medicine, and more.
- This contest challenges students to picture themselves in a STEM career by designing the U.S. Navy & Marine Corps of the future. Students will learn about Naval STEM challenges + scientists + engineers through this video series. Then, students will write an essay (500 – 1,500 words) explaining how our research and our people inspire them.
- Up to 5,000 winners will be selected – all winners will receive a prize!
- Submissions are due by 11:59pm ET on July 30, 2021.
- For more information, visit <https://navalhorizons.us/>





Preparing the STEM Workforce of the Future

- DoD Science Mathematics and Research Transformation ([SMART](#))
- National Defense Science & Engineering Grant Fellowship ([NDSEG](#))
- Science & Engineering Apprenticeship program (SEAP - [Army](#) & [Navy](#))
- AEOP [Fellowships & Apprenticeships](#)
- Naval Research Enterprise Internship Program ([NREIP](#))
- Air Force Research Laboratory [Scholars Program](#)
- [DoD Information Assurance Scholarship Program](#)
- Air Force [PALACE](#) Acquire Program
- [Air Force Premier College Intern Program \(PCIP\)](#)
- High School & Undergraduate Research Apprenticeship Programs ([HSAP](#) & [URAP](#))
- National Security Agency Computer Science Intern Program ([CSIP](#))
- Manufacturing Engineering Education Program ([MEEP](#))
- [NDEP Barry Goldwater Scholarship Program](#)

Workforce development through work experiential programs (WEPs).

- Scholarships
- Apprenticeships
- Internships
- Fellowships
- **High school to Post-doc**
- **Benefits include:**
 - Educational stipends
 - Mentorship
 - Work experience training
 - Security clearance
 - Networking
 - Gateway to a JOB
- **Annually DoD has ~2,000+ student interns** across the defense laboratory enterprise and academic partners

SMART

SCIENCE, MATHEMATICS,
AND RESEARCH FOR
TRANSFORMATION

PART OF THE NATIONAL
DEFENSE EDUCATION PROGRAM

What is SMART?

SMART Scholarship-for-Service Program provides a combined education/career opportunity to STEM students that will enhance the DoD civilian workforce.

SMART Scholars Receive:



Full Tuition towards a
BS, MS, or PhD in a
STEM Discipline



Book and Health
Allowance



Summer Internships



Annual Stipend



Experienced DoD
Mentor



Guaranteed Employment at a
Sponsoring DoD Lab/Facility
Upon Graduation

www.smartscholarship.org



SMART Scholarship Program

SMART enhances the Department's workforce with innovative scientists, engineers, and researchers across the United States.

- **3,367** Scholarships awarded since 2006
- **91%** success rate of service commitment completion
- **190** DoD sponsoring laboratories & agencies across 40 states
- **411** Universities represented by SMART scholars
- **21** STEM Disciplines



“ I've been able to apply my technical expertise to a variety of areas that aid the Navy's Mission.

The SMART Scholarship opened up many doors for professional growth and the ability to better serve our country. ”

Jennifer Aneke, *SMART Scholar*

SMART

SCIENCE, MATHEMATICS,
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TRANSFORMATION

PART OF THE NATIONAL
DEFENSE EDUCATION PROGRAM

smartscholarship.org

What do SMART Scholars Receive?

- Full Tuition
- Annual stipend between \$25,000-\$38,000 per year, depending on degree level
- Summer Internships
- Book Allowance & Health Insurance
- Experienced mentor
- Guaranteed employment at a DoD facility upon degree completion



Search STEM Opportunities at DoDSTEM.us

The screenshot shows the homepage of the DoDSTEM website. At the top left is the DoDSTEM logo with the text "Department of Defense DoDSTEM Science Technology Engineering Mathematics". To the right is a navigation menu with links: PARTICIPATE, EXPLORE, MEET DOD STEM, ABOUT, and FOR THE MEDIA. The main content area features the headline "Inspiring the future" and a paragraph about STEM as a gateway to a world of wonder. Below the text is a "Meet DoD STEM" link. On the right is a large illustration of a scientist and a student. The scientist, wearing a white lab coat and glasses, holds a test tube and a tray of vials. The student, also wearing glasses, is sitting at a desk with books and a magnifying glass, looking at a globe. A green arrow points from the year "2020" to the globe, and a blue arrow points from the year "2028" to the scientist. The background of the illustration includes a DNA helix, a microscope, and a beaker. At the bottom right of the illustration is a navigation bar with a left arrow, a blue dot, and three white dots, followed by a right arrow.

Department of Defense
DoDSTEM
Science Technology Engineering Mathematics

PARTICIPATE ▾ EXPLORE ▾ MEET DOD STEM ▾ ABOUT ▾ FOR THE MEDIA ▾

Inspiring the future

Science, Technology, Engineering and Mathematics, or STEM, is the gateway to a world of wonder. U.S. Department of Defense (DoD) STEM professionals work at the leading edge of our nation's most advanced technological breakthroughs. **STEM is our future.**

[Meet DoD STEM](#) ↻

2028
2020

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