



DoD STEM AND THE DEFENSE STEM
EDUCATION CONSORTIUM (DSEC)

INSPIRING THE FUTURE

The United States Department of Defense (DoD) depends on more than 70,000 highly technical, scientists and engineers to meet National Defense challenges and modernization priorities to power our Nation's innovative defense infrastructure. Aligned to the Federal STEM Education Strategic plan, **the Defense Science, Technology, Engineering, and Mathematics Education Consortium (DSEC)** is a collaborative partnership between academia, industry, non-for-profit organizations and government that aims to broaden STEM literacy and develop a diverse and agile workforce with the technical excellence to defend our Nation. By addressing and prioritizing critical STEM challenges, DoD is investing in evidence-based approaches to inspire and develop the Nation's science and technology workforce.

DSEC is led on behalf of DoD STEM by RTI International. This multi-year effort includes elements focused on STEM enrichment programs for students and educators, STEM workforce engagement, program evaluation, and public outreach (www.dodstem.us). These efforts will allow DoD to improve access for students to pursue STEM careers and consider Defense laboratories as a place of employment. Through strategic investment in STEM education and outreach activities, the effort will provide students with more exposure to educational and career opportunities, as well as DoD research. Additionally, the DSEC will provide unique hands-on learning experiences where students can work side-by-side with the Nation's best scientists and engineers helping to create cutting edge research and development. As an overarching goal, DSEC seeks to inspire the next generation of scientists and engineers.

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Department of Defense
DoDSTEM
Science · Technology · Engineering · Mathematics

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DSEC FUNDAMENTALS



Engage students in meaningful STEM experiences

DSEC will engage K-16 students and educators in meaningful formal and informal DoD STEM learning experiences.



Serve military-connected students and underrepresented students

DSEC will focus on serving students who are underrepresented in STEM (female students, students of color, students from low-income families, and military-connected students).



Connect to the DoD STEM workforce

DSEC will ensure STEM experiences are connected to the DoD STEM workforce and DoD careers.

How will DSEC support these three priorities in a unique and innovative way?



Leverage the network as a force multiplier

DSEC will leverage the consortium as a force multiplier to amplify the reach, visibility, and outcomes of DoD STEM.



Evolve the approach based on data

DSEC will use a data-driven approach to evolve and evaluate how DSEC operates over time to ensure positive outcomes for students and educators.

DSEC PARTNERS

