



The SCITEC Network: Supporting Engineering and Design Technology for Maine Teachers and Students

The SCITEC Network is a series of three-year projects across the state of Maine aimed at helping Maine high school students meet *Maine’s Learning Results* revisions related to engineering and technological design. SCITEC programs bring faculty and students from Maine high schools, Career and Technical Education centers and University of Maine schools together with staff from the Maine Mathematics and Science Alliance and the National Center for Technological Literacy at the Museum of Science in Boston.

SCITEC programs target three main goals:

Increased Content Knowledge

SCITEC programs build teacher knowledge in the content of the targeted science and technology standards and develop their understanding about important connections between science and engineering.

Curriculum Integration

Partner schools review available curricula and activities to and work to integrate SCITEC’s targeted science and technology standards into local science curricula.

Student Opportunities

SCITEC programs aim to increase opportunities for students to engage in designing projects in areas such as alternative energy solutions and to learn about educational and career opportunities in engineering and technological design.

SCITEC Network project activities focus on the newly revised *Maine Learning Results* for Science and Technology Standards B2: Skills and Traits of Technological Design; C2: Understandings about Science and Technology; C3: Science, Technology, and Society. Project activities include summer institutes and year-long professional development for teachers, establishment of Professional Learning Communities at the school and project level, and collaboration among engineers and teachers. SCITEC Network teachers have the opportunity to participate in extended design projects connecting students and faculty among Career and Technical Education centers and program sending schools. SCITEC students engage in engineering and technological design activities to connect their learning about the process of engineering and technological design to classroom work and extra-curricular activities.

Examples of SCITEC Program Activities and Resources		
SCITEC Network	Teachers	Students
<ul style="list-style-type: none"> • Cross-Network professional development opportunities • Ongoing online community and resource sharing with educators statewide • Access to the National Center for Technological Literacy curriculum library • Collaboration opportunities across SCITEC Network schools and facilities 	<ul style="list-style-type: none"> • Quarterly professional development opportunities • In-school professional learning community work • Background information and expert outside assistance with extended design projects • Connections with educators, facilities and resources of regional Career and Technical Education centers 	<ul style="list-style-type: none"> • Classroom learning targeting engineering and technological design standards • Engineering and design projects integrated into extra-curricular and classroom work • Field trips to University of Maine system laboratories • University of Maine system student and faculty guest speakers • Tours of local industries

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- Capital Area:** Capital Area Technical Center • Cony High School • Erskine Academy • Gardiner Area High School • Hall-Dale High School • Maranacook High School • Monmouth Academy
Sanford Area: Sanford Regional Vocational Center • Marshwood High School • Massabesic High School • Noble High School • Sanford High School
Mid Maine: Mid-Maine Technical Center • Lawrence High School • Messalonskee High School • Waterville High School • Winslow High School