

PROFESSIONAL DEVELOPMENT & FACULTY ENHANCEMENT



National Computational Science Institute Workshops

computationalscience.org



Shodor provides introductory through advanced workshops in computational science for pre-college teachers and university faculty. In addition, professional development by Shodor scientists and educators help incorporate interactive computing across the curriculum.



Pathways to CyberInfrastructure

shodor.org/cyberpathways

Shodor enables computational explorations to enhance existing after-school, community center, and faith-based programs for students.



The Computational Science Education Reference Desk

cserd.nsdsl.org Shodor develops and maintains CSERD, a peer-reviewed resource in computational science education and a Pathway portal of the National Science Digital Library (NSDL).



Interactivate

shodor.org/interactivate/

A popular set of interactive, online, materials for the teaching and learning of mathematics and quantitative reasoning



DEAF STEM

shodor.org/succeedhi/
Online lessons and activities with corresponding sign language video for hearing impaired students and their instructors

TRANSFORMING LEARNING THROUGH COMPUTATIONAL THINKING

MASTER Tools

shodor.org/master/
Online software for mathematical and scientific modeling



Online Courses for Faculty



computationalscience.org/courses/
A variety of online courses for teachers and university faculty, such as *Computational Chemistry for Chemistry Educators*

SUCCEED Curriculum

shodor.org/succeed/curriculum/

A collection of activities and lesson plans adapted from Shodor's own workshops that incorporate computational elements into math and science explorations



SUCCEED Workshops

shodor.org/succeed/
Science and math workshops throughout the year for middle and high school students.

Apprenticeships

shodor.org/succeed/apprenticeships/
High school students work through a set of modules and projects, developing the skills needed for an internship.



Internships

shodor.org/mentorcenter/
Expert students develop online resources, mentor apprentices, and teach workshops at Shodor and in the community.

