



E⁴Tech: Engaging, Exciting and Empowering Educators through the “T” in STEM

The Teaching & Learning Collaborative (TLC) and TECH CORPS (TC) will work with state education policymakers to help make Ohio a leader in computer science education, beginning in elementary school. TLC and TC will design, implement and expand an innovative professional development model and computer science curricula for Ohio teachers already teaching in Ohio classrooms. Data shows that access and exposure to computer science is high correlated to a student’s gender, racial background, zip code and socioeconomic status. Consequently, it is critical to provide students in elementary school access to computer science coursework.

E⁴Tech Proposal (Two Year Pilot Program):

Recruit, train and support 500 teachers statewide through robust E⁴Tech professional development and curriculum modules designed to provide innovative educational learning experiences to 3rd and 4th grade students. The E⁴Tech program develops and enhances the ability of teachers to creatively use computer science and computational thinking as part of mathematics instruction.

Five Regions Statewide:

- Concentrate program regionally and implement projects in each of the Central, Northeast, Northwest, Southeast and Southwest regions.
- Regional partners will advise project participants; assist with school district and teacher recruitment; identify and setup locations for professional development sessions; and support regional efforts to expand and sustain the project.

Participating Teachers and Students (Impact in the Classroom):

- 500 teachers from rural, urban and suburban school districts
- 12,500 students in 3rd and 4th grade

Proposed Budget:

- \$475,000/year for each FY20 and FY21 (Total: \$950,000 over the biennium)

Project Timeline:

July 2019 – June 2020
Summer/Fall - Development/Planning, Partner and Site Recruitment in each region, Recruit teacher
Winter/Spring - Implement 2-Day PD #CutOut4CS (3 workshops per region x 25 teachers x 5 regions = 375 teachers)
Beginning recruitment for E ⁴ Tech PD
July 2020 - June 2021
Summer - E ⁴ Tech Module 1 PD in each region (1 PD per region x 25 teachers x 5 regions = 125 teachers)
School Year - Teachers implement E ⁴ Tech in their classrooms
Early June - Computer Science Statewide Conference (tentative)



About Us:

TECH CORPS is a nonprofit organization dedicated to ensuring K-12 students have equal access to technology programs, skills and resources that enhance early learning and prepare them for college and career. TECH CORPS develops computer science/information technology programs and deploys tech-savvy talent to assist K-12 schools and youth-serving organizations across the country. Over the years, partners such as Cisco, Dell, JPMorgan Chase, NCTA, Nordson and Time Warner Cable have provided TECH CORPS with the fuel to deliver much-needed technology resources to K-12 students and teachers. Since 1995, more than 15,000 TECH CORPS volunteers have shared their time and talents assisting schools and nonprofit organizations in their communities.

The Teaching & Learning Collaborative (TLC) is a nonprofit organization, formerly known as the Science & Mathematics Network and has been in operation since 1992. TLC has a rich history of designing, coordinating, and delivering sustained PD in mathematics and science; and has coordinated several major initiatives, solidifying the organization's position as a leader in statewide science and mathematics reform. In addition to the statewide coordination of the K-2 IMPACT professional development program, TLC simultaneously designed and conducted two previous Ohio Mathematics Science Partnership Grants. TLC has a rich portfolio of PD programs, which include support from state, federal, and corporate foundations. TLC also works closely with school districts throughout the state to deliver innovative, high-quality professional development and support in mathematics, science, and technology for pK-12 educators.

TECH CORPS

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#E4Tech

#CutOut4CS

E⁴Tech Video: <https://youtu.be/TR9ZQH-PT8E>

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