STEM+Computing K-12 Education (STEM+C)

Program Description (PD): 18-005Y

PD: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505006
FQA: https://nsf.gov/ehr/Pubs/STEMCFAQs.pdf

"The STEM+C Program focuses on **research and development** of **interdisciplinary** and **transdisciplinary** approaches to the **integration of computing within science, technology, engineering, and mathematics (STEM)** teaching and learning for preK-12 students in both formal and informal settings. STEM+C supports research on how students learn to think computationally to solve interdisciplinary problems in the STEM fields."

2019 Proposal deadline: May 1, 2019

(Proposals are reviewed and funded on a rolling basis.)

Questions? Contact Chia Shen, cshen@nsf.gov, Program Director, NSF/DRL

STEM+C

STEM+C proposals should address:

1. **Focal disciplinary STEM content**, **concepts and practices** that will be integrated within STEM teaching and/or learning.
2. **Focal computing and/or computational thinking (CT) concepts and practices** that will be integrated in STEM teaching and/or learning. As CT has been traditionally defined by computer science, PIs should seek to determine new definitions of CT as is related to the disciplinary processes within STEM fields.
3. **Explicit research questions** guiding development and how ***integrated*** STEM **+**CS/CT teaching and/or learning will be objectively studied/measured.
4. **Field-advancing knowledge** potentially to be generated from the study of approaches to integration.