STELAR Webinar Series

Webinar 2: Process and Pedagogy

Friday, April 26, 12-1 pm ET
About STELAR:

- **STELAR: STEM Learning & Research Center (STELAR)**
- Resource Center for the NSF ITEST Program
- Located within Education Development Center in Waltham, MA
- EDC has supported the ITEST program since 2003
What STELAR does:

- **Technical support** the ITEST community
- **Disseminate** ITEST project findings nationally
- **Broadening participation** in the ITEST portfolio
- **Assisting** those interested in submitting an ITEST proposal

This material is based upon work supported by the National Science Foundation under Grant No. DRL 1614697. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.
Resources:

Developing a Proposal

- GET TO KNOW ITEST
- PREPARE YOUR PROPOSAL FOR SUBMISSION
- DEVELOP A ROBUST RESEARCH DESIGN
- CREATE AN EFFECTIVE EVALUATION STRATEGY
- CONNECT WITH PARTNERS
- REACH UNDERSERVED POPULATIONS
- DEVELOP THE WORKFORCE OF THE FUTURE

Project Profiles

- All Projects A-Z
- Bioscience
- Computer Science
- Engineering
- Environmental Science
- Mathematics

Resource Library

- Publications
- Instruments
- Curricular Materials
- Videos

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NSF’s ITEST Program

• Innovative Technology Experiences for Students and Teachers (ITEST) Program

• Supports the research and development of innovative models for engaging PreK-12 students in STEM learning

• Builds students interest in and capacity to participate in the STEM and information and communications technology (ICT) workforce of the future

• Current solicitation is under revision

Full Proposal Deadline Date: August 14, 2019
Event Overview

Charting the Future of Making in STEM Education
Dear Colleague Letter: Enabling the Future of Making to Catalyze New Approaches in STEM Learning and Innovation

June 4, 2015

Dear Colleagues:

The National Science Foundation (NSF) has contributed substantially to the development of the US Maker Movement and the exploration of Making as a pathway to innovations and learning in science, technology, engineering and mathematics (STEM). NSF’s strategic fundamental research investments enabled many of the innovations underlying 3-D printing, computer-aided design, geometric modeling and computer-integrated systems. NSF has made a series of investments in the systematic discovery of new knowledge about learning through Making in diverse formal and informal settings including fab lab classrooms, television and interactive web media, undergraduate engineering, and the first-ever World Maker Faire.

Today, a growing number of people engage in STEM practices and learning through various forms of Making. The Maker approach encourages people to understand how things work, to experiment, invent and redesign things through multiple iterations, to democratize and understand processes of engineering, science, and innovation, and to commercialize new products by developing and testing prototypes quickly and in a cost-effective manner. Making frequently takes place in social contexts, often called Maker spaces, where collaborators, mentors, advisors, and others can be found. These emerging ideas are pointing the way to how the STEM research and education community can both benefit from and contribute to the Maker Movement, improving U.S. innovation and STEM workforce development.
EAGER Maker Summit Goals

- Capturing current issues in the Maker movement with respect to education
- Identifying important research issues and trends
- Discussing NSF’s investments in the Maker movement
- Recommending future directions for NSF research and development
Summit working groups

- Broadening Participation
- Partnerships
- Process and Pedagogy
- Research and Evaluation
- Workforce Development

Discussion topics:
- Innovations
- Impacts
- Challenges
- Future of Making
Structure of the Summit

Day 1
Synthesis

Day 2
Envisioning

Post-Conference
Webinar Series
Today’s presentations:

• Sinem Siyahhan, California State University San Marcos
• Kristin Searle, Utah State University
• Micah Lande, Arizona State University
For more information:

• Email the team at STELAR@edc.org

• Join us for the series:
  
  o Webinar 3 - Research & Evaluation, Tuesday, April 30 from 1-2 pm ET
  o Webinar 4 - Broadening Participation, Tuesday, May 14 from 2-3 pm ET
  o Webinar 5: Partnerships, Tuesday, May 21 from 2-3 pm ET