



## STELAR Webinar Series

### Webinar 2: Process and Pedagogy

Friday, April 26, 12-1 pm ET



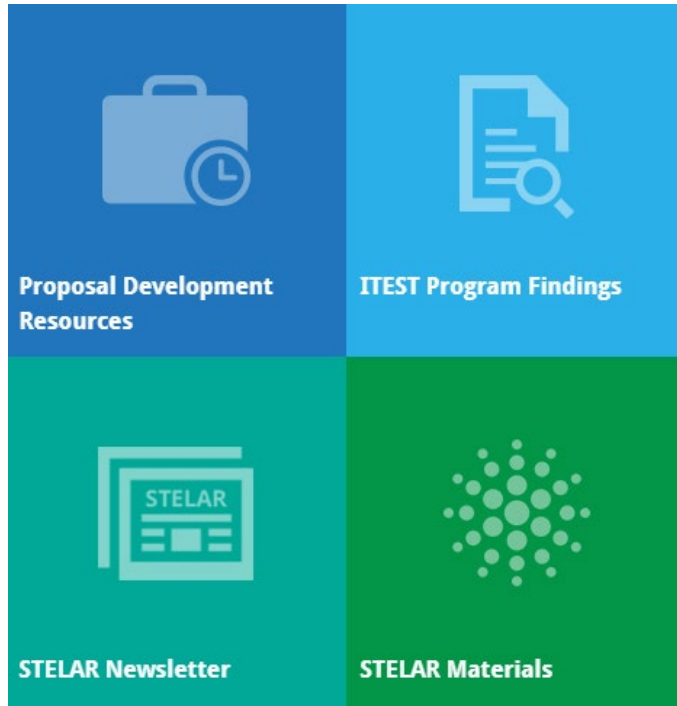
This material is based upon work supported by the National Science Foundation under Grant No. DRL 1614697. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

# 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:



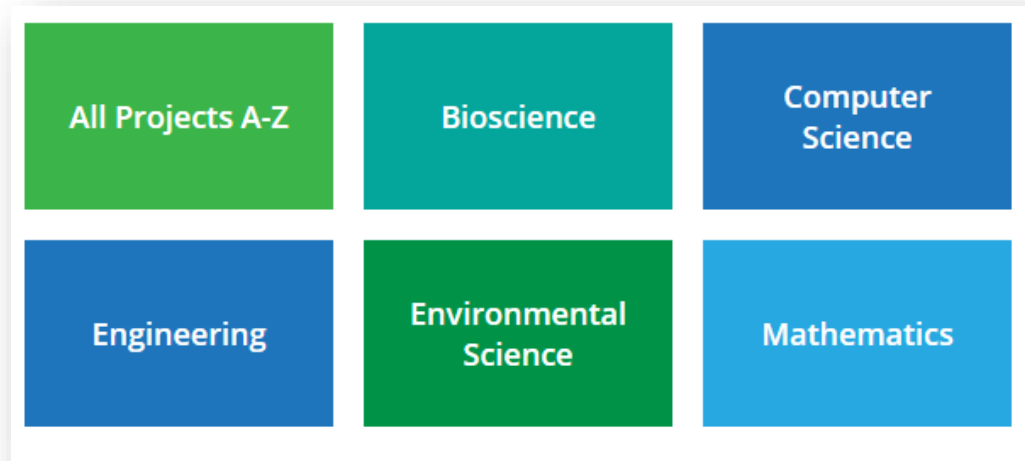
- **Technical support** the ITEST community
- **Disseminate** ITEST project findings nationally
- **Broadening participation** in the ITEST portfolio
- **Assisting** those interested in submitting an ITEST proposal

# Resources:

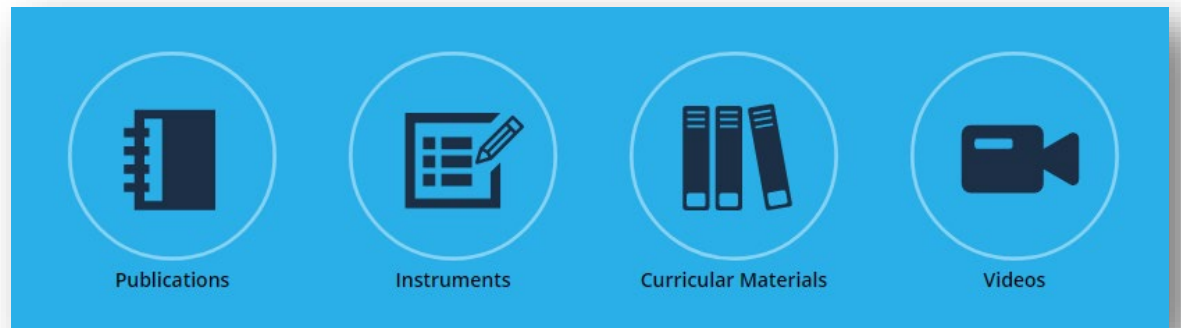
## Developing a Proposal

- + **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



## Resource Library



# 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**





# **NSF EAGER Maker Summit**

Dec 10 - 11, 2018 | Alexandria, VA

## **Event Overview**

### **Charting the Future of Making in STEM Education**



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.



# NSF EAGER Maker Projects

NSF 15-086

## 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.



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.

# 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

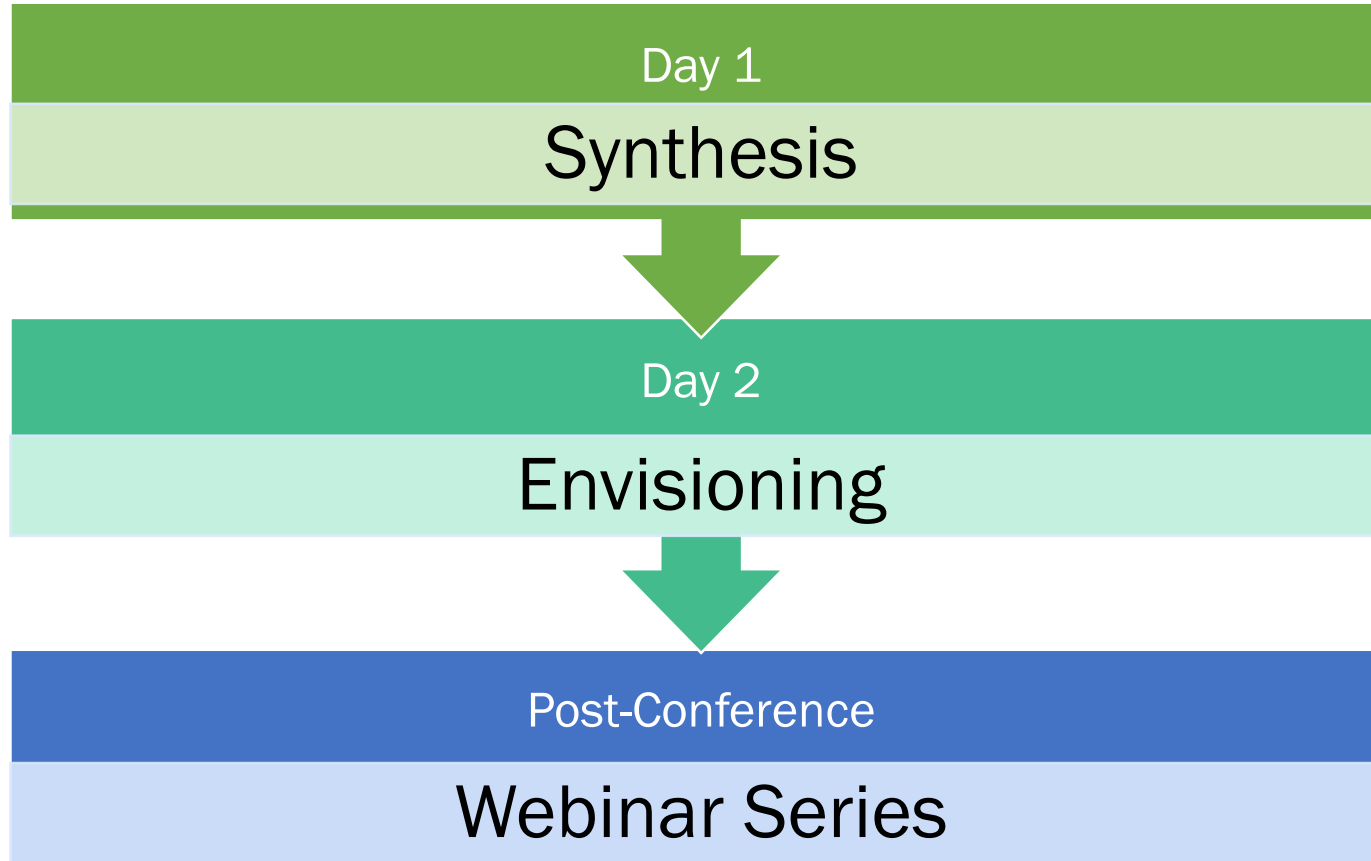
- Broadening Participation
- Partnerships
- Process and Pedagogy
- Research and Evaluation
- Workforce Development

## Discussion topics:

- Innovations
- Impacts
- Challenges
- Future of Making



# Structure of the Summit



# 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](mailto:STELAR@edc.org)
- Join us for the series:
  - **Webinar 3 - Research & Evaluation**, Tuesday, April 30 from 1-2 pm ET
  - **Webinar 4 - Broadening Participation**, Tuesday, May 14 from 2-3 pm ET
  - **Webinar 5: Partnerships**, Tuesday, May 21 from 2-3 pm ET

