



ACCELERATED BRIDGE CONSTRUCTION UNIVERSITY TRANSPORTATION CENTER

2021 Engineering First! Teacher Workshop
July 14th, 2021 (Virtual), August 4th, 2021 (UNR)
8:30 am-3:30 pm
Breakfast and Lunch Provided for In-Person Workshop

Learn from experts in bridge engineering and curriculum development

- Brent Phares – Director of Bridge Engineering Center at Iowa State University
- Mohamed Moustafa – Assistant Professor at University of Nevada, Reno
- Lori Tollefson – 1st Grade Teacher and co-creator of Engineering First! curriculum

During the two-day workshop, participants will be introduced to a four-week bridge-related learning module that has been used in elementary schools in Iowa. Some of the one-hour lesson plans include:

- What is an Engineer?
- Identify a problem and solution
- What's the strongest shape?
- Types and magnitudes of forces
- Famous bridges
- K'nex™ bridge building
- Engineering of balsa bridges
- Reflection on engineering and the engineering process

Participants will be provided with the materials necessary to implement the learning modules into their elementary classrooms.

Contact: Mohamed Moustafa -
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Brent Phares - bphares@iastate.edu (515) 294-5879

TO REGISTER FOR THE WORKSHOP:

<https://abc-utc.fiu.edu/education/activities-outreach/2021-engineering-first-teacher-workshop/>

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