



ACCELERATED BRIDGE CONSTRUCTION UNIVERSITY TRANSPORTATION CENTER

2021 Engineering First! Teacher Workshop

July 14th, 2021 (Virtual), August 11th, 2021 (UW)
8:30 am-3:30 pm

Breakfast and Lunch Provided for In-Person Workshop

Participants will receive 12 Washington State Approved STEM Clock Hours

Learn from experts in bridge engineering and curriculum development

- Brent Phares – Director of Bridge Engineering Center at Iowa State University
- Marc Eberhard –Professor at University of Washington
- 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: Marc Eberhard -
Brent Phares -

eberhard@u.washington.edu
bphares@iastate.edu

(206) 715-9751
(515) 294-5879



Balsa wood bridge activity



K'nex™ bridge activity

TO REGISTER FOR THE WORKSHOP:

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

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