JUMP into STEM: How to Create a Successful Submission

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Agenda

- Meet the Organizers
- JUMP into STEM Overview
- Important Dates
- Challenges
- Submission Breakdown
- Website Overview
- Internship Info
- Q&A
Meet the Organizers

Mary Hubbard  
U.S. Department of Energy (DOE)  
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Melissa Lapsa  
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Building Envelope & Urban Systems Research

Dr. Kim Trenbath  
National Renewable Energy Laboratory (NREL)  
Buildings and Thermal Sciences Center

Jahi Simbai  
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Workforce Development, Human Resources

Dr. Yeonjin Bae  
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Buildings Integration & Controls Research
Meet the Organizers

Dr. Roderick Jackson
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JUMP into STEM Vision

- Inspire the next generation of building scientists, focusing on creative ideation and diversity in the building science field
- Provide a gateway for college undergraduate and graduate students to experience the research and career possibilities of studying building science
- Attract students from diverse majors and different backgrounds.
Overview: Challenge Winners

- Three concurrent challenges that run August–November 2020:
  - Select the challenge or challenges in which to participate.
- Online resources to help you build and generate idea solutions
- Winning team selected from each challenge:
  - Each winning team will be awarded a token of recognition, and one-on-one mentorship with an industry expert.
Overview: Challenge Finalists

- Challenge winners and additional teams will be invited, if eligible, to compete in the Final Event as finalists.
- Finalists will be notified December 7.
- To be eligible to come to the Final Event, students must:
  - Start Zintellect.com internship applications by November 13
  - Complete application by November 20.
Overview: Virtual Final Event

- Finalist teams will be invited to compete at the virtual Final Event in January.
- Finalists will present ideas to a panel of judges from industry, DOE, academia, and national labs.
- Students from winning team will earn paid 2021 summer internships at either NREL or ORNL.
Important Dates

- **August 3**: Three challenges live on the JUMP into STEM website.
- **November 13**: Challenges close and no new submissions will be accepted after 11:59 p.m. ET. Internship applications must also be started through Zintellect.
- **November 20**: Internship applications must be finished and submitted through Zintellect.
- **December 7**: Finalists will be notified and invited to attend the event at NREL in January for the last round of competition.
- **December 14**: Finalists must indicate to event organizers whether they will participate in the final competition.
- **January 28-29, 2021**: Virtual Final Competition Event.
Challenge Topics

Advanced Building Construction Methods

Grid-Interactive Efficient Buildings (GEB)

Building Energy Audit for Residential or Commercial Buildings
Submission Breakdown

Teaming

- Teams of 2-4 students; undergraduate or graduate

- Highly encouraged:
  - Teams with students from multiple majors and/or minors
  - Teams with underrepresented groups (including, but not limited to, race, ethnicity, and gender). This will be evaluated based on the diversity statement that’s required as part of the submission.

For more info: www.jumpintostem.org
Submission Breakdown (cont.)

**Project Team Background**
- 2-page max
- Project name, team name, and collegiate institution
- Team’s mission statement
- Short bio for each team member
- Background for each team member
- Diversity statement.

**Project Challenge Submission**
- 5-page max
- Describe which challenge addressing
- Problem statement:
  - 1-2 paragraphs
  - Identify stakeholder(s)
- Technical solution
- Technology-to-market plan:
  - 1-2 paragraphs.
Diversity Statement

One of JUMP into STEM’s key objectives is to encourage diversity of thought and background in students entering the building science industry.

You must describe in one paragraph how your team is contributing to diversity in building science.
Challenge Competition Evaluation Criteria

Technical (40%)
- Technical solution or process
- Technical feasibility
- Technology-to-market plan
- Technical response.

Innovation (30%)
- Market characterization and readiness for proposed idea
- Replicability and scalability
- Innovation.

Diversity and Applicability (30%)
- Diversity statement
- Stakeholder engagement
- Applicability to stakeholders.
Website Overview

JUMP into STEM’s website is where you can:

- Learn more about the competition
- Find specific rules and requirements
- Read through the three challenges
- Check the competition schedule
- Get the latest news
- Apply!

www.jumpintostem.org
How to Submit Online

- Each challenge will have its own page.
- Submit at the bottom of the relevant challenge page.
- Be sure to coordinate either in person or virtually as a team when you perform this step.
Internship Info


Internship requirements include:

- **Must start application by November 13, 2020, and complete by November 20, 2020**
- Letters of recommendation due November 20, 2020
- Cumulative minimum GPA of 3.0 on a 4.0 scale, as of November 13, 2020
- Must be enrolled as an undergraduate or graduate student
- Must have medical insurance
- Must be 18 years of age
- Submit all required essays
- Submit academic transcripts
- Submit resume.
Q&A

Additional questions: JUMP@ORNL.gov