

# 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)  
Building Technologies  
Office



Melissa Lapsa  
Oak Ridge National  
Laboratory (ORNL)  
Building Envelope &  
Urban Systems  
Research



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



Jahi Simbai  
NREL  
Workforce Development,  
Human Resources



Dr. Yeonjin Bae  
ORNL  
Buildings Integration &  
Controls Research

# Meet the Organizers



Dr. Roderick Jackson  
NREL  
Buildings and Thermal  
Sciences Center



Dr. Ryan Meyer  
NREL  
Buildings and Thermal  
Sciences Center



Hayley McLeod  
ORNL  
Building Envelope & Urban  
Systems Research



Charlotte Franchuk  
ORNL  
Building Envelope & Urban  
Systems Research

# 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](http://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

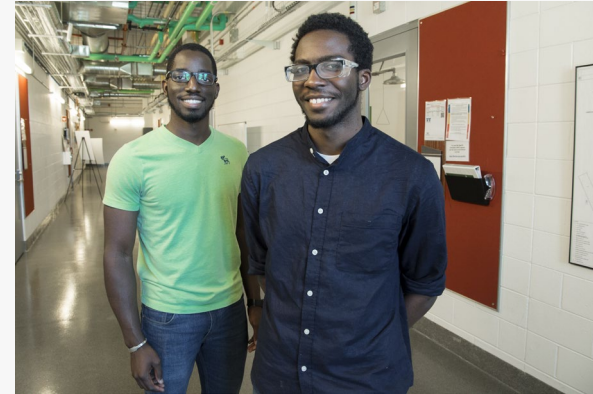
- 5-page max
- Describe which challenge addressing
- Problem statement:
  - 1-2 paragraphs
  - Identify stakeholder(s)
- Technical solution
- Technology-to-market plan:
  - 1-2 paragraphs.

# 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.



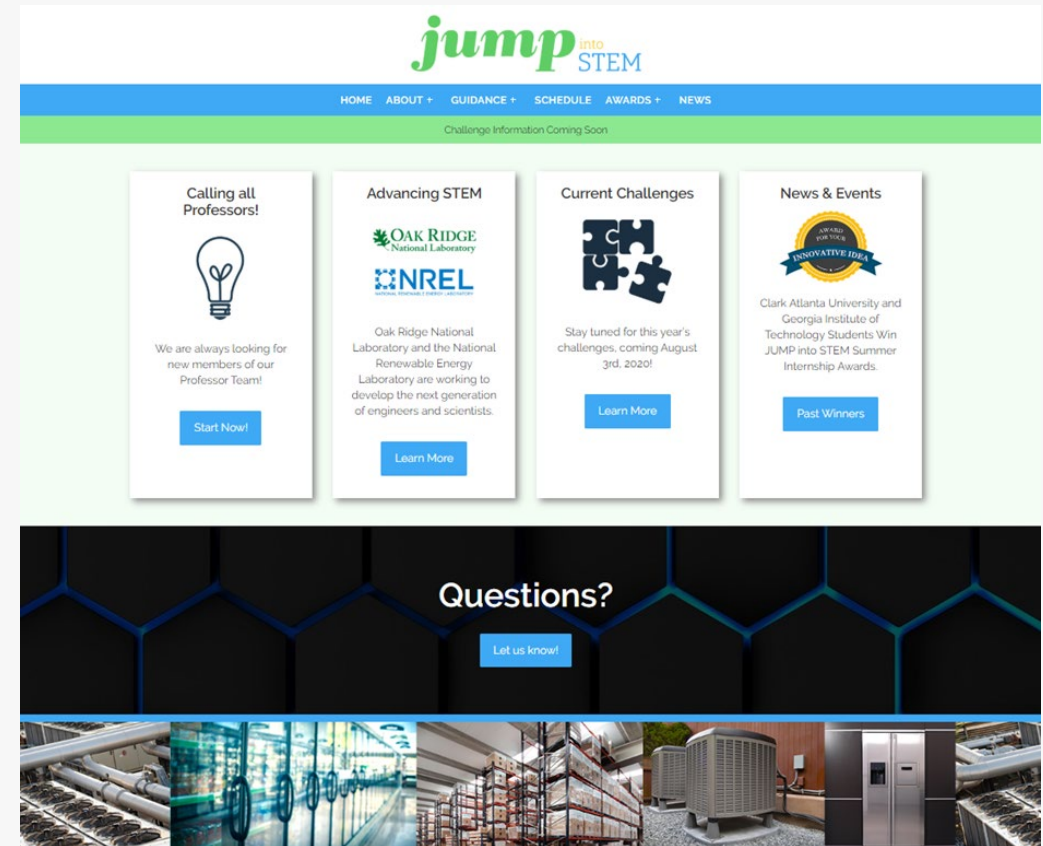
# Website Overview



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](http://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.

**Submit an idea**

[SHOW THE SUBMISSION FORM](#)

Ready to submit an idea? Note that we require information from each team member.

**Team Member 1**

Idea Name \*

Name \*

First Last

Email \*

Phone \*

Are you 18 years of age or older (or the age of majority in your state if it is over 18 years)? \*

☐ Yes  
☐ No

What is the name of the U.S. college or university where you are currently enrolled? \*

In which state is your college or university located? \*

Alabama

What is your major/discipline of study? \*

What is your minor? Please state "none" if you do not have one. \*

**Internship consideration \***

If you would like to be considered for an internship at either Oak Ridge National Laboratory or the National Renewable Energy Laboratory in Summer 2021, please review the eligibility requirements and select "yes" to acknowledge that you have begun your Zintellect application. If you decline to be considered for an internship at either Oak Ridge National Laboratory or the National Renewable Energy Laboratory in Summer 2021, please select "no"

☐ Yes  
☐ No

[Zintellect](#)

Please check this box to acknowledge you understand & agree to the following statement: "I have read & understand the Terms & Conditions of the challenge." \*

☐ Agree

How many team members are in your team?

☐ Two  
☐ Three  
☐ Four

How did you hear about JUMP? \*

**Abstract \***

**Optional Image Upload**

[Choose File](#) No file chosen

Upload a relevant image to be displayed with your abstract.

**Challenge Submission \***

[Choose File](#) No file chosen

Allowed file type: pdf

**Diversity Statement \***

[Choose File](#) No file chosen

Allowed file type: pdf

**Hide my identity (Display anonymously)**

☐ Yes

**Consent \***

☐ Please check this box to acknowledge you understand & agree to the following statement:

All team members have read & understand the Terms & Conditions of the challenge. We understand that all team members must begin their internship application OR decline to be considered for an internship BEFORE we submit our challenge solution idea in order to be eligible to compete in the JUMP into STEM competition.

[Submit](#)

# Internship Info



Applications due **November 20, 2020**, through [Zintellect.com](https://zintellect.com).

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](mailto:JUMP@ORNL.gov)