



**2021 JUMP into STEM Virtual Final Competition Agenda
January 28–29, 2021**

Event Contact	Dr. Kim Trenbath, 720-434-9508, kim.trenbath@nrel.gov	
Competition Day 1: January 28, 2021		
(Mountain /Eastern Times)	Event	Lead
8 a.m./10 a.m.	2021 JUMP into STEM Final Competition Welcome	Dr. Kim Trenbath, NREL
8:15 a.m./10:15 a.m.	Building Technologies Office Welcome	Erika Gupta, U.S. Department of Energy BTO
8:25 a.m./10:25 a.m.	National Renewable Energy Laboratory Welcome	Dr. Martin Keller, NREL
8:35 a.m./10:35 a.m.	Oak Ridge National Laboratory Welcome	Dr. Michelle Buchanan, ORNL
8:45 a.m./10:45 a.m.	JUMP into STEM Program and 2021 Internship Overview	Mary Hubbard, DOE Dr. Yeonjin Bae, ORNL Dr. Kim Trenbath, NREL
9 a.m./11 a.m.	Coffee Break and NREL Virtual Tour	James Bosch, NREL Communications
9:40 a.m./11:40 a.m.	JUMP into STEM Trivia and Gift Card Giveaways	Dr. Ryan Meyer, NREL
10 a.m./noon	Building Science Career Panel: Insights and Career Recommendations from DOE, NREL, and ORNL Staff	Dr. Roderick Jackson, NREL Dr. Fredericka Brown, DOE Dr. Diana Hun, ORNL Dr. Wale Odukomaia, NREL
10:45 a.m./12:45 p.m.	Student Session: Small Group Conversations with Career Panelists and JUMP into STEM Advisory Board	Dr. Kim Trenbath, NREL

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11:15 a.m./1:15 p.m.	15-Minute Break	
11:30 a.m./1:30 p.m.	Student Networking: Get to Know Your Future Building Science Colleagues	Dr. Ryan Meyer, NREL
12:30 p.m./2:30 p.m.	Closing and Overview of Day 2	Dr. Kim Trenbath, NREL

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Competition Day 2: January 29, 2021		
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8 a.m./10 a.m.	Overview	Dr. Kim Trenbath, NREL
8:10 a.m./10:10 a.m.	Introduction to the Building Energy Audits Challenge	Dr. Kim Trenbath, NREL
8:15 a.m./10:15 a.m.	Team 1: New Jersey Institute of Technology: <i>Automated High-Resolution Occupancy and Weather Data Collection for College Dormitories</i>	Anuradha Kadam
8:35 a.m./10:35 a.m.	Team 2: Syracuse University/ State University of New York College of Environmental Science and Forestry: <i>Enabling the Proliferation of Energy Auditing</i>	Vedyun Mishra and Trisha Gupta
8:55 a.m./10:55 a.m.	Team 3: University of Georgia: <i>Habitat for Humanity</i>	Gordon Stead
9:15 a.m./11:15 a.m.	JUMP into STEM Trivia and Gift Card Giveaways	Dr. Ryan Meyer, NREL
9:30 a.m./11:30 a.m.	10-Minute Break	
9:40 a.m./11:40 a.m.	Introduction to the Grid-Interactive Efficient Buildings Challenge	Dr. Kim Trenbath, NREL
9:45 a.m./11:45 a.m.	Team 4: California Polytechnic State University: <i>Algorithm for Regulating Plug and Process Loads in Commercial Office Buildings</i>	Carolyn Graven
10:05 a.m./12:05 p.m.	Team 5: South Dakota State University: <i>Utilization of Home Energy Management System (HEMS) to Mitigate the Overvoltage Problem in Photovoltaic-Rich Distribution Networks</i>	Youjeong Jang, Saima Ishaq, and Tanveer Hussain

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10:25 a.m./12:25 p.m.	Team 6: Georgia Institute of Technology: <i>Load Shifting with Smart Water Heaters: Conservation Without the Cold Showers</i>	Sarah Canastra
10:45 a.m./12:45 p.m.	JUMP into STEM Trivia and Gift Card Giveaways	Dr. Ryan Meyer, NREL
11 a.m./1 p.m.	Lunch Break and ORNL Virtual Tour	Melissa Lapsa, ORNL
12 p.m./2 p.m.	Introduction to the Advanced Building Construction Methods Challenge	Dr. Kim Trenbath, NREL
12:05 p.m./2:05 p.m.	Team 7: Clark Atlanta University: <i>Triboelectric Floor Generator System</i>	Bria Frazier and Zoe Landers
12:25 p.m./2:25 p.m.	Team 8: The Pennsylvania State University: <i>On the Applications of 3D Concrete Printing in Residential Construction</i>	Puja Bhagat and Jonathan Wong
12:45 p.m./2:45 p.m.	Team 9: The University of Tennessee, Knoxville: <i>Energy Efficient Concrete Mix for Additive Manufacturing</i>	Adam Brooks and Nathan Smith
1:05 p.m./3:05 p.m.	JUMP into STEM Trivia and Gift Card Giveaways	Dr. Ryan Meyer, NREL
1:20 p.m./3:20 p.m.	10-Minute Break	
1:30 p.m./3:30 p.m.	Team 10: Williams College: <i>An Interdisciplinary Approach to Homeless Shelter Design</i>	Amanda Roff, Emily Kuwaye, and Jaya Alagar
1:50 p.m./3:50 p.m.	Team 11: North Carolina Agricultural and Technical State University: <i>Advanced Building Construction Methods</i>	Megan Bush
2:10 p.m./4:10 p.m.	JUMP into STEM Trivia and Gift Card Giveaways	Dr. Ryan Meyer, NREL

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2:20 p.m./4:20 p.m.	10-Minute Break	
2:30–3:45 p.m./ 4:30–5:45 p.m.	Student Session: Make Your Conversation Count—Networking Virtually (Concurrent Session)	Marcus Giron, NREL
2:30 – 3:45 p.m./ 4:30 – 5:45 p.m.	Professor Session: Networking with Other Successful Professionals (Concurrent Session)	Chris Nash, NREL
3:45 p.m./5:45 p.m.	Feedback Session	Jahi Simbai, NREL
4 p.m./6 p.m.	15-Minute Break	
4:15 p.m./6:15 p.m.	Announcement of Winners	Mary Hubbard, DOE

Organizers



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