

2023 JUMP into STEM Final Competition Agenda
January 26-27, 2023

Event Contact	Allison Georgeson 224-475-9285, allison.georgeson@nrel.gov Dr. Kim Trenbath, 720-434-9508, kim.trenbath@nrel.gov		
Competition Day 1: January 26, 2023			
Research Support Facility (RSF), National Renewable Energy Laboratory (NREL)			
Mountain Time	Event	Conference Room	Lead
7:00 – 7:30 AM	Shuttles from Denver West Marriott to NREL East Gate		NREL
7:30 – 8:00 AM	Check in at NREL	East Gate & RSF Front Desk	NREL
8:00 – 8:30 AM	Breakfast	Beaver Creek X320	NREL
8:30 – 8:50 AM	Welcome to NREL	Beaver Creek X320	Dr. Kim Trenbath, NREL Dr. Roderick Jackson, NREL
8:50 – 9:10 AM	Building Technologies Office Welcome	Beaver Creek X320	Ram Narayanamurthy, U.S. Department of Energy (DOE) Building Technologies Office (BTO)
9:10 – 9:30 AM	DOE BTO JUMP into STEM Program and National Laboratory Internship Opportunities	Beaver Creek X320	Nicholas Ryan, DOE BTO Dr. Yeonjin Bae, Oak Ridge National Laboratory (ORNL) Dr. Kim Trenbath, NREL Carmen Cejudo, Pacific Northwest National Laboratory (PNNL)
9:30 – 9:45 AM	Group Photo	RSF Courtyard	Lindsey McGuirk
9:45 – 10:45 AM	Student “About-Me” Networking Session	Beaver Creek X320	Dr. Ryan Meyer, NREL

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Mountain Time	Event	Conference Room	Lead
10:45 – 12:00 PM (Concurrent Sessions)	STUDENTS Early Career Panel and Networking	Beaver Creek X320	Dr. Desmond Stubbs, Oak Ridge Institute for Science and Education (moderator) Panelists: Dr. Nelson James, NREL Amy LeBar, NREL Gokul Paranjothi, NREL Marley Praprost, NREL
	PROFESSORS Professor Session #1: JUMP into STEM Professor Team and Opportunities for Working with the National Laboratories	Huerfano X324	Dr. Yeonjin Bae ORNL Dr. Kim Trenbath, NREL Dr. Ellen Morris, NREL Dr. Moody Altamimi, ORNL
12:00 – 1:00 PM	Lunch	Beaver Creek X320	NREL
1:00 - 3:00 PM (Concurrent Sessions)	STUDENTS NREL Laboratory Tour	Depart from Beaver Creek X320	Hosts: Selam Haile & Amy LeBar Laboratory Leads: Jim Bosch, Bethany Sparn, Grant Wheeler, Dr. Kerry Rippy, Eric Kozubal
	PROFESSORS and PROFESSIONALS NREL Laboratory Tour	Depart from Beaver Creek X320	Hosts: Dr. Kim Trenbath & Dr. Ryan Meyer Laboratory Leads: Jim Bosch, Bethany Sparn, Grant Wheeler, Dr. Kerry Rippy, Eric Kozubal
3:00 - 3:15 PM	Break		NREL

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3:15 – 4:45 PM (Concurrent Sessions)	STUDENTS Industry Connections Networking Session	Beaver Creek X320	Bill Eckman, ORNL Dr. Ryan Meyer, NREL
	PROFESSORS Professor Session #2: National Laboratory and Professor Research Overviews and Networking	Colorado X505 (start) Crystal X507 (breakout)	Dr. Kim Trenbath, NREL Dr. Roderick Jackson, NREL Melissa Lapsa, ORNL
4:45 – 5:00 PM	Closing and Friday Overview	Beaver Creek X320	Dr. Kim Trenbath, NREL
5:00 – 5:30 PM	Optional: Students go through their slides in prepare for tomorrow (NREL On-demand shuttle takes participants back to Denver West Marriott)	Beaver Creek X320	Lindsey McGuirk, NREL

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Competition Day 2: January 27, 2023 Research Support Facility (RSF), National Renewable Energy Laboratory (NREL)			
Mountain Time	Event	Conference Room	Lead
7:00 – 7:30 AM	Shuttles from Denver West Marriott to NREL		NREL
7:30 – 8:00 AM	Check in at NREL	RSF Front Desk	NREL
8:00 – 8:30 AM	Breakfast	Beaver Creek X320	NREL
8:30 – 8:50 AM	NREL Leadership Opening Remarks	Beaver Creek X320	Dr. Johney Green, NREL Associate Laboratory Director
8:50 -9:00 AM	Curb your Carbon - Challenge Introduction	Beaver Creek X320	Dr. Ryan Meyer, NREL
9:00 – 9:20 AM	Team 1: Illinois Institute of Technology <i>Investigation on Decarbonization Leveraging Strategy for the Underserved Communities in Chicago Area</i>	Beaver Creek X320	Jongki Lee Minyoung Kim Susan Mon
9:25 – 9:45 AM	Team 2: Clark Atlanta University <i>CO₂ Photosynthesizer</i>	Beaver Creek X320	Nicholas Bell Musa Salaam
9:50 – 10:10 AM	Team 3: Vanderbilt University <i>Composite Beam Machine</i>	Beaver Creek X320	Arielle Kopp
10:10 – 10:25 AM	Break		NREL

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10:25 – 10:45 AM	Team 4: University of Texas at Austin <i>Decreasing Carbon Concrete's Carbon Footprint</i>	Beaver Creek X320	Eliza Salmeron Eesha Bilal
10:50 - 11:00 AM	It's Electric - Challenge Introduction	Beaver Creek X320	Dr. Ryan Meyer, NREL
11:00 – 11:20 AM	Team 5: Purdue University <i>MyHP+: A Personalized User-Friendly Heat Pump Economic Analysis Tool for Homeowners and Building Operators</i>	Beaver Creek X320	Andrew Fix Dohyeon Kim Sarah Alkandari
11:20 – 12:20 PM	Lunch	Beaver Creek X320	NREL
12:20 - 12:25 PM	Sustainable and Resilient - Challenge Introduction	Beaver Creek X320	Dr. Ryan Meyer, NREL
12:25 – 12:45 PM	Team 6: University of Nebraska <i>The Fleet: Tiny Houses Repurposed in the Wake of Disaster</i>	Beaver Creek X320	Anu Adeyemo Danika Ratnapradipa Julia Ehlers
12:50 – 1:10 PM	Team 7: Metropolitan State University of Denver <i>Rainwater Advocacy and Information Non-profit (R.A.I.N.)</i>	Beaver Creek X320	Zach Parker Jenni Kerns Lucas Guimares
1:15 – 1:35 PM	Team 8: University of Louisiana at Lafayette <i>Eau-Tarp</i>	Beaver Creek X320	Parker Vice Gabe Hoggard Zackery Trahan

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Mountain Time	Event	Conference Room	Lead
1:35 – 1:45 PM	Break		NREL
1:45 – 2:45 PM (Concurrent Sessions)	STUDENTS Career Development for Scientists and Engineers	Beaver Creek X320	Marcus Giron, NREL
	PROFESSORS Professor Session #3: Collaborating with National Laboratories and Networking	Colorado X505 (start) Crystal X507 (breakout)	Dr. Kerry Rippy, NREL Dr. Jason Woods, NREL Dr. Robert Tenent, NREL
2:45 – 3:10 PM (Concurrent Sessions)	STUDENTS Feedback Session	Beaver Creek X320	Dr. Ryan Meyer, NREL
	PROFESSORS Feedback Session	Colorado X505 and Crystal X507	Bill Eckman, ORNL Dr. Kerry Rippy, NREL
3:10 – 3:15 PM	Break		NREL
3:15 – 3:45 PM	Announcement of Winners	Beaver Creek X320	Nicholas Ryan, DOE BTO
3:45 – 4:15 PM	Photo Session	Beaver Creek X320	Lindsey McGuirk, NREL
4:30 PM	End/Depart to the Denver International Airport		

Organizers



Sponsor

