

Hydropower STEM and Career Academy

Time	Day 1	Day 2	Day 3	Day 4	Day 5	
8:30 --8:45	Registration	Morning Tailgate/Day Overview	Morning Tailgate/Day Overview	Fish Sampling Center Technology (Dave Beardsley)	Morning Tailgate/Day Overview	
8:45 - 9:00	Introduction and Orientaton					
9:00 - 9:15	STEM Project-Build Your Own Hydropower (Jack Horne, Clyde Carpenter, Matt Cannata)	Field Trip: Lake Chelan Dam, Chelan Falls Powerhouse, Chelan River Gorge, Fish Restoration Habitat/Water Quality Testing (Bob Bauer/Jeff Osborn/Rob Campbell)	Making the STEM Connection: High School to College (TBD)	Mechanical/Electrical Engineer Module (Penny Hulbert/Paul Resler) (Steve Sembritzki/John Yale)	STEM Project-Fly a Drone (Dan Garrison/Eric Sydenstricker/Mike Salgado) Build, fly, physics of flight, potential uses, security.	
9:15 - 9:30			Resources: Where to Look, Where to Get Them. Include use the web, find your career.			BREAK
9:30 - 9:45						
9:45 - 10:00			Apprenticeships (Dave Parkhill)			
10:00 - 10:15						Benefits of a Hydropower Career, Here's my story; It could be yours (Xiaoling Woods, Tyler Sellers, Jerry Garcia, Kathleen Brooks, Cheryl Hobson)
10:15 - 10:30			Mechanical/Electrical Engineer STEM Project (Jack/Clyde/Matt). Comparative model: What they built day 1 vs. what's on generation floor.			
10:30 - 10:45						Comparative model: What they built day 1 vs. what's on generation floor.
10:45 - 11:00			LUNCH			
11:00 - 11:15						LUNCH
11:15 - 11:30			LUNCH			
11:30 - 11:45						LUNCH
11:45 - 12:00			LUNCH			
12:00 - 12:15						LUNCH
12:15 - 12:30	LUNCH					
12:30 - 12:45		LUNCH				
12:45 - 1:00	LUNCH					
1:00 - 1:15		LUNCH				
1:15 - 1:30	LUNCH					
1:30 - 1:45		Group Tours: Visit generation unit and fish surface collector and bypass system (Scott Tidd/Bob Bauer)	STEM Project-Solar Car Challenge (Josh Mitchell/Jim White)	Project Management Module (T. Sellers, C. Hall, D. Lodge, T. Tucker, G. Rice)	Divers/Lineman (Tim Pettit, Vance Fletcher)	Pathway Maps (Tony Nelson, Kirk Hudson, Ruth Erwert, Kirby Reinhart, Jim Grey, Casey Hall)
1:45 - 2:00						
2:00 - 2:15	BREAK	Students split into groups and job shadow project managers working on specific project.	Step-up/down transmission model (Clyde/Jack/Matt)	Evaluation		
2:15 - 2:30						
2:30 - 2:45	Group Tours: Visit dismantled generation unit and fish surface collector and bypass system (Scott Tidd/Bob Bauer)	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions	Graduation	
2:45 - 3:00						
3:00 - 3:15	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions		
3:15 - 3:30						
3:30 - 3:45	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions		
3:45 - 4:00						
4:00 - 4:15	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions	What did you learn? Questions		
4:15 - 4:30						