



# 2017 Middle School “Engineering Around the World” Engineering Challenge Camp

**June 19-23, 2017**

Cosponsored by the West Virginia University  
Benjamin M. Statler College of Engineering & Mineral Resources and EQT  
and sponsored in part by  
Halliburton, Eaton, and the Service League of Morgantown

## Monday, June 19, 2017

Time	Activity	Place	Led By
8:30-8:45 a.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
9:00 a.m.	Icebreaker, Design Process, Intro to General Engineering and Civil Engineering	Courtyard/209 MRB	Counselors
10:00 a.m.	Geodesic Domes (Canada & USA)	ESB Atrium	Counselors
11:30 a.m.	Clean-up and Mute Organization/Human Knot Activity	Courtyard/MRB Atrium	Counselors
12:00 p.m.	Lunch	ESB Atrium	Counselors
12:30 p.m.	Bridge Building (Japan, India, & USA)	209 MRB	Counselors
2:00 p.m.	Mini Project – Build a structure with limited resources (Haiti)	105 MRB	Counselors
3:00 p.m.	Water Filtration Project (Fiji)	G35 ESB	Counselors
4:30 p.m.	Clean-up and Blind Synergy	Courtyard/G39 Hallway	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

## Tuesday, June 20, 2017

Time	Activity	Place	Led By
8:30-8:45 a.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
9:00 a.m.	Icebreaker and Mini Design Project – Build a structure that would survive high winds (Himalaya Region)	209 MRB	Counselors
10:00 a.m.	Dam Construction (Egypt & Ethiopia)	G35 ESB	Counselors
11:30 a.m.	Clean-up and Chair Basketball Activity	MRB Atrium	Counselors
12:00 p.m.	Lunch	ESB Atrium	Counselors
12:30 p.m.	Tall Tower Design (Dubai)	205 MRB	Counselors
2:00 p.m.	Mini Project – Build a stable structure on sand that survives high winds (Indonesia)	105 MRB	Counselors
3:00 p.m.	Railways – Marble Track Building (Russia)	205 MRB	Counselors
4:30 p.m.	Clean-up /Giant Tic-Tac-Toe	Courtyard/MRB Atrium	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

### Wednesday, June 21, 2017

Time	Activity	Place	Led By
8:30-8:45 a.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
9:00 a.m.	Intro to Mechanical and Aerospace Engineering and Mini Project – Propulsion Methods 1	105 MRB	Counselors
10:00 a.m.	Fox Hunt (Amateur Radio Project)	109 MRB	Amateur Radio Club
11:30 a.m.	Clean-up and Water Balloon/Bottle Race	Courtyard	Counselors
12:00 p.m.	Lunch	ESB Atrium	Counselors
12:30 p.m.	Wind Turbines (China and Brazil)	205 MRB	Counselors
2:00 p.m.	Mini Project – Propulsion Methods 2	105 MRB	Counselors
3:00 p.m.	Oasis of the Seas – Boat Construction	Courtyard	Counselors
4:30 p.m.	Clean-up /Heads and Tails Tag	Courtyard	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

### Thursday, June 22, 2017

Time	Activity	Place	Led By
8:30-8:45 a.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
9:00 a.m.	Intro to Computer/Electrical Engineering and Mini Project – 3D Printing	G11 ESB	Counselors
10:00 a.m.	WVU Media Innovation Center Activities	Media Innovation Center	Media Innovation Center Leaders
11:30 a.m.	Clean-up and Camper's Choice	Courtyard	Counselors
12:00 p.m.	Lunch	ESB Atrium	Counselors
12:30 p.m.	Electrical Circuit Quiz Board	G11 ESB/205 MRB	Counselors
2:00 p.m.	Continue 3D Printing	G11 ESB	Counselors
3:00 p.m.	1KB Chess Game and Coding (United Kingdom)	209 MRB	Counselors
4:30 p.m.	Clean-up and Camper's Choice	Courtyard	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

### Friday, June 23, 2017

Time	Activity	Place	Led By
8:30-8:45 a.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
9:00 a.m.	Intro to Mining/PNGE Mini Project –Playdough Coring	G35 ESB	Counselors
10:00 a.m.	PNGE Drilling Build	G35 ESB	Counselors
11:30 a.m.	Clean-up and Camper's Choice	Courtyard	Counselors
12:00 p.m.	Lunch	ESB Atrium	Counselors
12:30 p.m.	Mini Project – Panning for metal with engineering twist	209 MRB	Counselors
2:00 p.m.	Mponeng Mine (South Africa)	G35 ESB	Counselors
3:00 p.m.	Create Posters/Presentation	205 MRB	Counselors
4:00 p.m.	Presentations and Award Ceremony	G102 ESB	Cate Schlobohm
5:00 p.m.	Pick Up	ESB Atrium	Counselors