



# 4<sup>th</sup> and 5<sup>th</sup> Grade Engineering Challenge Camp

July 17 - July 21, 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, July 17, 2017

Time	Activity	Place	Led By
12:30-12:45 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Icebreaker	109 MRB/Courtyard	Counselors
1:30 p.m.	Intro to Industrial Engineering	109 MRB	Counselors
2:00 p.m.	<u>Racecar Driver</u> – Build the most efficient car	105 MRB	Counselors
3:00 p.m.	<u>Parcel Delivery</u> – build a marble sorter	205 MRB	Counselors
4:00 p.m.	<u>Video Game Designer</u> – write explicit instructions to a video game	G11 ESB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

## Tuesday, July 18, 2017

Time	Activity	Place	Led By
12:30-12:45 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Icebreaker	109 MRB/Courtyard	Counselors
1:30 p.m.	Intro to Biomedical, Chemical, and Petroleum Natural Gas Engineering	109 MRB	Counselors
2:00 p.m.	<u>Geologist</u> – Rock and Mineral Investigation	G35 ESB	Counselors
3:00 p.m.	<u>Doctor</u> – Articulated Hand	205 MRB	Counselors
4:00 p.m.	<u>Chemist</u> – Make your own glue and compare to Elmer's Glue	G35 ESB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

## Wednesday, July 19, 2017

Time	Activity	Place	Led By
12:30-12:45 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Icebreaker	109 MRB/Courtyard	Counselors
1:30 p.m.	Intro to Civil Engineering	109 MRB	Counselors
2:00 p.m.	<u>Architect</u> – Geodesic Shape Building	209 MRB	Counselors

3:00 p.m.	<u>Construction Worker</u> – build a stable bridge	205 MRB	Counselors
4:00 p.m.	<u>Disaster Relief</u> – Build a shelter with limited resources	109 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

#### Thursday, July 20, 2017

Time	Activity	Place	Led By
12:30-12:45 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Icebreaker	109 MRB/Courtyard	Counselors
1:30 p.m.	Intro to Electrical and Computer Engineering	109 MRB	Counselors
2:00 p.m.	<u>Computer Scientist</u> – Learn the basics of coding through a coding game	209 MRB	Counselors
3:00 p.m.	<u>Computer Scientist</u> – Code using sphero robots	205 MRB	Counselors
4:00 p.m.	<u>Electrician</u> – create your own electric quiz board	209 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

#### Friday, July 21, 2017

Time	Activity	Place	Led By
12:30-12:45 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Icebreaker	109 MRB/Courtyard	Counselors
1:30 p.m.	Intro to Mechanical and Aerospace Engineering	109 MRB	Counselors
2:00 p.m.	<u>Astronaut</u> – build an air pressure rocket	209 MRB/Courtyard	Counselors
3:00 p.m.	<u>Roller Coaster Designer</u> – build a marble track	205 MRB	Counselors
4:00 p.m.	<u>Pilot</u> – build a paper airplane that carries a load and flies large distance	109 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors