Jackling Introduction to Engineering

Location: Missouri S&T (Virtual Camp)
Ages: 11th-12th grades Dates: June 21-23
Camp website

Camp description:
Introduction to various engineering disciplines through hands-on activities and team design competitions

Explosives Camp

Location: Missouri S&T
Ages: 11th-12th grades (Must be 16+ and US Citizen)
Dates(s): June 13-18
       June 20-25
Camp website

Camp description:
Handling, making, and priming/blesting various explosives and pyrotechnics

Formula SAE Electric Car Camp

Location: Missouri S&T
Ages: 10th-12th grades
Dates(s): July 18-22
Camp website

Camp description:
Vehicle dynamics, design process, and mock vehicle build

ASM Materials Camp

Location: Missouri S&T (Virtual Camp)
Ages: 11th-12th grades
Dates(s): July 18-22
Camp website

Camp description:
Metals and ceramics, SEM and microscopy, design build competition. Competitive application process.
<table>
<thead>
<tr>
<th>Camp Name</th>
<th>Location</th>
<th>Ages:</th>
<th>Dates(s):</th>
<th>Camp website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuclear Engineering Camp</td>
<td>Missouri S&amp;T</td>
<td>11th-12th grades</td>
<td>June 20-25</td>
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<tr>
<td>Camp description</td>
<td>Natural radioactivity, nuclear forensics, reactor operations, shielding</td>
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<tr>
<td>Robotics Camp</td>
<td>Missouri S&amp;T</td>
<td>9th-10th grades</td>
<td>July 8-10</td>
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<tr>
<td>Camp description</td>
<td>Programming, lego mindstorm, motors, electronics, sensors, team building</td>
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<tr>
<td>Space - The Final Frontier</td>
<td>Missouri S&amp;T (Virtual Camp)</td>
<td>10th-12th grades</td>
<td>June 11 – 15</td>
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<tr>
<td>Camp description</td>
<td>Aerospace, spacecraft design, GPS tracking and programming, electronics and circuitry, design challenge</td>
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<tr>
<td>Ranken Summer Adventure Camps</td>
<td>Ranken Technical College (St. Louis, MO)</td>
<td>9th-12th grades</td>
<td>TBD</td>
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<tr>
<td>Camp description</td>
<td>Options for 9th - 10th Graders: Boot-Up Computer Camp, Design &amp; Engineering, Heavy Metals, TETRIX Robotics Technology, Turn 4 RC Race Engineering, Women in Engineering</td>
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<tr>
<td>Engineering Academy</td>
<td>SLU (St. Louis University)</td>
<td>10th-12th grades</td>
<td>TBD</td>
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<tr>
<td>Camp description</td>
<td>Aerospace engineering, mechanical engineering, biomedical engineering, computer engineering, electrical engineering, civil engineering</td>
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<td>Robotics Academy</td>
<td>SLU (St. Louis University)</td>
<td>9th-12th grades</td>
<td>TBD</td>
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<tr>
<td>Camp description</td>
<td>Study mechanical, electrical and computer engineering, design and build robots</td>
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</table>
**Structural Engineering Experience**

Location: SLU (Saint Louis University)
Ages: 11th-12th grades
Dates(s): TBD

Camp website

Camp description:
Build foam bridges, learn engineering principles

**Aviation Academy**

Location: SLU (Saint Louis University)
Ages: 11th-12th grades
Dates(s): TBD

Camp website

Camp description:
Flight science, aviation management, aerial navigation, aircraft design, unmanned aerial vehicles and air traffic control.

**Engineering High School Summer Camp**

Location: University of Missouri - Columbia
Ages: 10th - 12th grades
Dates(s): TBD

Camp description:
Working on teams the entire week to solve an engineering problem (creating a bridge) along with small projects to experience different types of engineering.