

# **SCIENCE, ENGINEERING & TECHNOLOGY**

5 entries per class

Must be entered in <https://bremer.fairentry.com> by July 1st

Judging: Monday, July 24; Starts at 9AM

**Department:** Statics

**Division:** 106: Science, Engineering and Technology

**Class:**

**10610 Mechanics** – An exhibit that shows skills or learning about general mechanics or engineering solutions or that involve a combination of skills.

**10612 Automotive** – Repaired or restored vehicle. (**Note: vehicles will be on display at the Iowa State Fair one day only, tentatively Thursday, August 10.**)

**10613 Automotive: Educational Display** – An exhibit that shows learning about an automotive idea including automotive maintenance, auto operations, auto safety, or automotive systems.

**10614 Electric** – Constructed or repaired article or educational display that shows skills or learning about electric wiring, appliances, lighting, electrical energy sources, safety, etc.

**10615 Small Engine** – Repaired or restored operating engine or educational display or other type of exhibit that shows skills or learning about small engines. This class includes repaired or restored lawn tractors, small motorcycles, go-karts, etc.

**10616 Tractor** – Repaired or restored tractor. Note: A conference judging opportunity for exhibitors of repaired or restored tractors in Class 10616 will be offered during exhibit check-in. (Conference judging may not be available during all check-in times.) Tractors will be displayed outside throughout the Iowa State Fair. Release time Sunday, August 20, after 7 p.m.

**10617 Tractor: Educational Display** – An exhibit that shows learning related to tractors, tractor mechanics, tractor operations, or tractor safety.

**10618 Welding** – Constructed item or educational display that shows skills or learning about welding.

**10620 Woodworking** – An exhibit that shows learning about wood, woodworking techniques, and safe uses of woodworking tools and machines. Exhibits may include newly constructed or refinished/reclaimed/restored wood items.

**10630 Science, Engineering, and Technology** – An exhibit that shows learning about or helps explain how science and technology help us interact with the world. Topics include aerospace, biological and chemical sciences, computers and networking, earth and climate, geospatial mapping (GPS/GIS), or any other application of science, engineering, or technology.

**10632 Aerospace** – Educational display or other exhibit (including flyable models) showing learning about an aerospace idea or topic.

**10634 Robotics** - Educational display or other exhibit (including working robots) showing learning about robotics and robotic systems.

**Science, Engineering, and Technology Special Rule: Exhibitors entered in the 4-H Science, Engineering, and Technology classes are not eligible to exhibit in similar FFA Ag Mechanics classes and vice versa.**