



# 2022 TENNESSEE 4-H ELECTRIC CAMP

## 31 Wonderful Years of STEM Education

4-H Electric Camp is a fun-filled, rewarding adventure in electricity. You will explore the world of energy, electricity, energy conservation, electrical safety, and other basic sciences in fun-filled, "hands-on" learning activities. You will work with electrical specialists from across the state in learning centers. Each learning center will consist of hands-on activities so that you can learn by doing. You will also have the chance to meet other 4-H'ers from across Tennessee and explore careers in energy, electricity, and basic sciences. It's an electrifying experience!

**CAMP DATES:**  
**JUNE 27-30, 2022**

**STATE REGISTRATION DEADLINE: MAY 13, 2022**

### HOW MUCH DOES IT COST?

The cost of the 4-H Electric Camp is **\$300.00/participant**. The fee includes bus, lodging, meals, Dollywood, activities, and take-home items. Registration and fees will be taken through the participants' 4-H office.

### WHO CAN GO TO CAMP?

2022 4-H Electric Camp is open to any 4-H member enrolled in **6th or 7th grade as of January 1, 2022**. 4-H members who attended camp as 6th graders are eligible to return and participate as 7th graders.



# 2022 LEARNING STATIONS



At 4-H Electric Camp, you will explore the world of energy, electricity, and the basic sciences in fun-filled, “hands-on” learning centers. This year’s learning centers feature:

- **Station 1 – Wiring an Extension Cord** – This learning center will teach you some basic wiring techniques that are used by electricians’ every day. You will have the opportunity to demonstrate what you have learned by wiring up an extension cord with USB charging capabilities which you can take with you to use in your home.
- **Station 2 – Biomimetic Robot** – Students will learn about the engineering design process, biomimetics, and robotics while building a biomimetic robot (a robot inspired by nature).
- **Station 3 – Robotics** – Robots were once only seen in science fiction movies; however, today robots are used to do many tasks. In this learning center you will see the latest robot technology and then try your hand at programming a robot to perform a specific task.
- **Station 4 – Home Energy Conservation** – We use electricity to light our home, cook our food, play music, and operate televisions. But as we use more electricity in our homes, our electric bills rise. In this activity, you will learn how conserving electricity in your home not only helps to lower your electric bill but also helps to conserve our environment.
- **Station 5 – Electric Vehicles** – Many car manufacturing companies today are producing electric vehicles (EVs). Some EVs have a battery instead of a gasoline tank, and an electric motor instead of an internal combustion engine to power the vehicle. Others use a combination of a gasoline and an electric motor to power the vehicle. In this learning center, you will learn about the latest technology in electric vehicles.
- **Station 6 – Electrical Safety** – Electric power does a tremendous amount of work for us; but, because it is such a powerful force we must be careful around it. This learning center will teach you how to play it safe around high voltage power lines.

**Check out:**

**<https://4h.tennessee.edu/electric-camp/>**



## HOW DO I REGISTER?

**Registrations will be taken through your county 4-H office. Reach out to your county 4-H agent or staff to get registered.**

