



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

ELECTRIC GIRLS SATURDAY WORKSHOPS!

Program Quick Facts:

- When: Saturdays, 9AM - 12:30 PM; Starting 9/21 - 12/14
- Who: YOUR Electric Girl! 5-14 year old girls & nonbinary students
- What: a fun workshop program centered around building girls' confidence through self-guided project development & building, public speaking, & advanced computer literacy skills. Girls will be able to identify and explain the importance of femme/GNC-inclusive spaces in STEM and representation and recognize STEM in daily life and imagine their role in the STEM field
- Where: [Xavier University](#)
- How much: \$450/ 12 weeks OR FREE via [scholarship](#)

About Our Groups

Buzzers: Our youngest and newest engineers will get a taste for circuitry, project design, power tools, and coding. They will learn how to make a one-component series circuit, and how to solder it! With the help of Cubetto, our robot friend, they will learn about how coding works, and with the help of Scratch they will learn basic computer literacy. Our instructors will instill a culture of safety and confidence with tools such as our drill and saw while assisting or demonstrating for them the best practices for power tools. We also hope to encourage self reflection and a growth mindset through Design Journals, Temperature, and Surveys.

Sparks: The young and practiced engineers will deepen their knowledge of circuitry by mastering the parallel circuits, exploring new components, and honing their soldering skills. The sparks will explore independence with hands-on use of our saw, drill, and hot glue guns. Through the help of Scratch



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

and MakeyMakey, they will get comfortable with Block Coding to create games, animation, and more! Our sparks will focus on time-management,

collaborations, mentorship, and challenging themselves through their self-designed project. They will also continue developing self awareness and reflection through Design Journals, Surveys, and Temperature.

Volts: Our older, brave, fresh faced engineers will master independent and safe use of power tools, such as the drill, saw, and soldering irons. They will be able to understand the differences between series and parallel circuits, how to use resistors, and what causes a short circuit. They will learn how batteries store energy and how electrons move through the circuit. HTML lessons will teach them how to put together a website using written code, and Arduino will combine coding and circuits to control components like motors, LEDs, and lasers. Our Volts will have lots of practice sharing and communicating their thought process in project building and the unique qualities of their inventions. Our older engineers should also be able to identify the importance of diversity in STEM, as well.

Joules: The jewels of Electric Girls! Our most experienced engineers will dive deep into Arduino, project development, and advancing their leadership skills. The Joules should be comfortable using all power tools, all components, and be able to teach others how they are used. Joules will be challenged to build complicated parallel motor circuits, collaborative project designs, teaching them about all the different forms energy can take. They will also refine their HTML skills, write more complicated Arduino code, and learn Python, too. This group should be familiar with Electric Girl's mission, the importance of representation and opportunity, their role in sharing what they've learned, and be able to see a future for themselves in the STEM world.



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

Electric Girls Saturday Workshops FAQs

a. What do girls gain from joining Electric Girls?

Girls who participate in Saturday Workshops will create their own self-directed and designed inventions - this could be a website, a video game, an electronic invention that lights up or moves. Our curriculum centers on the learning benefits of self-directed projects that challenge each girl to make decisions, design, problem-solve, and set goals to achieve the finished product. Girls will earn badges to add to her collection of skills and achievements. They will also refine their presentation skills for Demo Day, when each girl will have a public speaking opportunity. By participating in Saturday Workshops, girls will become a part of the Electric Girls Circuit and can participate in our programs year-round, including Robotics Team, Summer Camp, and more!

Here are some examples of what girls have built in past Saturday Workshops:



b. Which class is right for my girl?

We separate classes by age and experience level so we can design the most appropriately paced curriculum. Returning Electric Girls are girls who have participated in an After-School Class, In-School Class, Saturday Workshop, or past Summer Camp. Check this chart to find the right fit for your girl:

	New to Electric Girls	Returning Electric Girls
--	-----------------------	--------------------------



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

5-8 Years Old	<i>Buzzers</i>	<i>Sparks</i>
9-14 Years Old	<i>Volts</i>	<i>Joules</i>

c. What if my girl is younger than 5?

Our programs are designed for girls who are at least 5 years old and have had a year of kindergarten or another form of formal schooling. We look forward to seeing you next year!

d. What if my girl wants to be with her friends in a different class?

We separate classes by age and experience level so we can design the most appropriately paced curriculum for our campers. In order to ensure that girls are learning at the appropriate pace and in turn, get the most out of their Electric Girls experience, girls must be registered for the appropriate class. There is time throughout the day when all of the girls will be together in workshop, computer labs, and other spaces, so the girls will be able to mingle, learn, and teach their friends.

e. What happens in a day of camp?

We start each day with our opening circle called "Taking our Temperature". Then we introduce our Tool of the Day and enjoy team games until morning Skill Discovery begins. Campers learn coding, soldering, woodworking, design, etc. from our Electric Girls Staff. Snack gives us a break before jumping into hands-on learning. The rest of the morning after snack is full of more Skill Discovery, followed by another hour for building and hands-on learning. We close the day with shout outs, then it's time to go home.

f. What if we need to miss a day or leave early?

We ask that girls and their families try very hard not to miss a workshop day. Absences can cause students to fall behind on material or in the progress of their projects. However, we understand that other priorities may pop up. Please notify joan@electricgirls.org as soon as you know your camper may miss a day. We're here to help as much as possible. Call us if you're having trouble getting to camp, your schedule changes, or if your camper is sick. For early pick-ups or late drop-offs, notify us as soon as possible so that we can do our best to accommodate your needs.

g. How do I apply for a scholarship?



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

Electric Girls' mission is to ensure all girls have the opportunity to become leaders in tech, regardless of her family's financial situation. Thanks to our wonderful sponsors, **Capital One and Society for Science**, we are able to offer full scholarships to our Saturday Workshops. Applications will be accepted on a rolling admission, so fill out the scholarship application form [here](#) as soon as possible! Applicants can expect to hear back within a week. For more information about our scholarship process, check out [our scholarships page](#).

h. What is the refund policy?

We offer full refunds up to two weeks before the start date of Saturday Workshops. We do not offer refunds within two weeks of the workshop's start date.

i. What happens after I register?

After you register you should receive the Saturday Workshop Family Handbook via email. If you do not receive the handbook after registration please email joan@electricgirls.org

j. What and when is Demo Day?

Demo Day is the culminating festival and celebration of your girl's growth and experience at an Electric Girls program. Demo Day is an opportunity for girls to show off the physical skills they've learned through booths and demonstrations as well as the leadership and presentation skills they have grown through their time at Electric Girls. Demo Day festivals are open to the public and we invite all Electric Girls, past, present, and future, to join us in the celebrations! Demo Day happens on December 14, 2019.

k. Who are Electric Girls' instructors?

Electric Girls' instructors are passionate and highly skilled educators. Some of our instructors are former or current formal educators with a knack for engineering, and some are former engineers with a skill for teaching. We believe that the best teachers are the ones who believe in the power of learning and growing alongside girls.

l. What are some local STEM opportunities for boys?

Electric Girls is intentionally designed to help girls' recognize their own STEM strengths, but we do believe that STEM is for everyone. We recommend checking out:



612 Andrew Higgins Blvd
New Orleans, LA 70130
www.electricgirls.org

contact@electricgirls.org

- [Boys at Tulane STEM \(BaTS\)](#) (boys only)
- [STEM NOLA](#) (co-ed)
- [Core Element](#) (co-ed)
- [STEM Innovation Camp @ WW2 Museum](#) (co-ed)
- [Be Loud Summer Camp](#) (co-ed)

m. For questions about programming, contact
[**cia@electricgirls.org**](mailto:cia@electricgirls.org)

n. For questions about registrations and/or scholarships, contact
[**joan@electricgirls.org**](mailto:joan@electricgirls.org)