



# Williamson County 4-H Junior Solar Sprint



## Overview

This program is sponsored by the AEOP (Army Educational Outreach Program). It is a competition for 5<sup>th</sup> to 8<sup>th</sup> grade students to design, create and race the fastest, most interesting, and best crafted solar-vehicle possible. Students will build and race solar powered cars using hands-on engineering skills and principles of science and math that will be taught in the class. They will develop teamwork and problem solving abilities, investigate environmental issues, and gain hands-on STEM skills. Vehicles will be built in teams of 3-5 students. In addition to the instructors, each team will have a mentor to assist in problem solving and construction. Bring your own team or we will pair you up in class. Winning design student teams will compete in expense paid regional and national competitions.

Classes are open to grades 5 through 8.

Adults interested in mentoring – please contact [FDuncan1@UTK.edu](mailto:FDuncan1@UTK.edu)



## Meeting Dates and Times

**Junior Solar Sprint** - Two courses on Tuesdays in the fall and spring:

Fall Semester: Meeting Dates: **Sept 17<sup>th</sup>, Oct 1<sup>st</sup>, Nov 5<sup>th</sup>, Nov 19<sup>th</sup>, Dec 3<sup>rd</sup>, & 17<sup>th</sup>**, class time 6-7:30pm. Race Day - December 21<sup>st</sup>, time TBD.

Spring Semester: Meeting Dates: **Jan 7<sup>th</sup>, 21<sup>st</sup>, Feb 4<sup>th</sup>, 18<sup>th</sup>, March 3<sup>rd</sup>, 17<sup>th</sup> and April 7<sup>th</sup>**, class time 6-7:30pm. Race Day - April 18<sup>th</sup>, time TBD.



## Registration Fee

\$25 per student



## Meeting Location

Classes are held at the Williamson County Ag Expo Park 4215 Long Lane, Suite 200 Franklin, TN 37064 & possibly at other local venues TBD



Return registration forms to the Williamson County Extension (615) 790-5721



# Williamson County 4-H STEM Registration Form 2019-2020

Student Name: \_\_\_\_\_

School/Homeschool \_\_\_\_\_ Grade: \_\_\_\_\_

Email: \_\_\_\_\_

\*Used for email communication by instructors, please put 1-2 email addresses you check & read regularly.

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Gender: \_\_\_\_\_

Parent Name(s): \_\_\_\_\_

Race/ Ethnicity:  White Non-Hispanic  Black Non- Hispanic  Hispanic  
 Asian/ Pacific Islander  American Indian/ Alaskan Native



## To Join a Class Mark the Group(s) you are registering for:

- |  |  |
|--|--|
| <input type="checkbox"/> <b>STEM Fun 1 4:00</b> <b>\$100</b><br>Grades 4-5         | <input type="checkbox"/> <b>CSI (Crime Scene Investigation) \$100</b><br>Grades 8-12 |
| <input type="checkbox"/> <b>STEM Fun 1 6:00</b> <b>\$100</b><br>Grades 4-5         | <input type="checkbox"/> <b>STEM Jr. Solar Sprint \$25</b><br>Grades 5-8             |
| <input type="checkbox"/> <b>STEM Fun 2</b> <b>\$100</b><br>Grades 5-8              | <input type="checkbox"/> <b>Raspberry Pi \$100</b><br>Grades 8-12                    |
| <input type="checkbox"/> <b>Intro to Robotics &amp; Program \$75</b><br>Grades 4-6 | <input type="checkbox"/> <b>Python Programming \$100</b><br>Grades 8-12              |
| <input type="checkbox"/> <b>Robotics 1</b> <b>\$100</b><br>Grades 6-8              | <input type="checkbox"/> <b>3D Printing \$100</b><br>Grades 8-12                     |
| <input type="checkbox"/> <b>Robotics 2</b> <b>\$100</b><br>Grades 7-12             | <input type="checkbox"/> <b>Engineering Fundamentals \$100</b><br>Grades 5-8         |
| <input type="checkbox"/> <b>Robotics 3</b> <b>\$100</b><br>Grades 8-12             |  |



**Registration Fee** Payment should be included with registration form.

Payment options: check or exact cash. Make checks out to: "Williamson County 4-H."

**Mail or Deliver to:** Williamson County 4-H, 4215 Long Lane, Suite 200, Franklin, TN 37064