



# Clean Energy Technology Program

only offered at

The Center for Advanced Technical Studies

916 Mt. Vernon Church Road, Chapin, SC 29036 (803) 476-8601



SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS TOGETHER IN ONE PROGRAM!

## Career Interests:

- Renewable Energy Engineer
- Climatologist
- Energy Field Auditor
- Wind Turbine Machinist
- Sustainable Design Architect
- Green Energy Specialist
- Nuclear Power Plant Operator
- Solar PV Installer
- Fuel Cell Materials Chemist
- Environmental Scientist
- Entrepreneur



## 4 Course Sequence:

Clean Energy Systems	Fall - (Year 1)
Clean Energy Applications	Spring - (Year 1)
Clean Energy Strategies Honors	Fall- (Year 2)
Clean Energy Innovations Honors	Spring- (Year 2)

## Is Clean Energy Technology for you?



Honors credit is available for all courses and NI CLAD certification is an option.

**DFHS STEM** students: Clean Energy Technology is a great compliment to STEM & the 4th course counts as your required independent research component.

For more information see the course catalog or email [plsmallw@lexrich5.org](mailto:plsmallw@lexrich5.org)

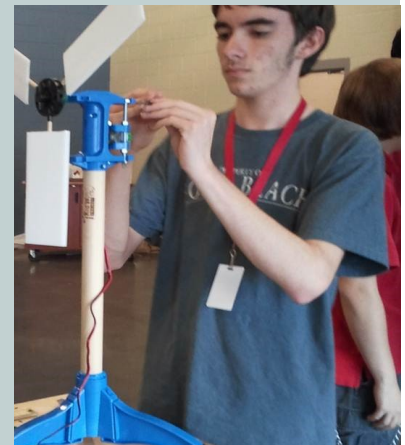
In Clean Energy Technology courses, students use science, math, literacy, and technical skills to solve authentic problems using cutting-edge technology. Concepts are explored daily in a “hands-on” lab environment that allows students to develop and test solutions to energy challenges using an engineering design process.

### Pre-requisite:

None (Algebra I, English I, & Physical Science recommended)

### Complimentary courses:

- PLTW Engineering
- Environmental Science
- Biology
- Chemistry
- Physics
- Statistics



## What is Clean Energy?

Utilization of non-fossil fuel sources of energy and implementing energy conservation & sustainability

## Why Clean Energy?

Students who complete the Clean Energy Technology Program are both college and career ready to apply their knowledge and skills in one of the fastest growing and most desirable STEM fields of study.





## *Is the Clean Energy Technology Program the right choice for me?*

### **Students with one or more of the following criteria may benefit from this program:**

- rising freshman, sophomore or junior with strong interest & skills in math/science
- interest in pursuing a career/college major focusing on STEM (science, technology, engineering, math)
- enjoy learning through laboratory and hands-on projects as well as innovative problem-solving
- passion for green energy technology, resource conservation, & sustainability
- prefer to learn through discovery and experimentation with limited teacher lecture instruction

Please note that students have the option of taking Clean Energy Technology Course 1 & 2 at either Honors or CP (College-prep) level. No prior coursework/experience is necessary. Courses 3 & 4 are only offered at the Honors level. A third year of independent Clean Energy study is offered by enrolling in Honors Research 1 & 2 at Center for Advanced Technical Studies.

There are plenty of seats available for students from Irmo, Chapin, Dutch Fork, & Spring Hill High Schools for this program for the upcoming school year.

You may still register for Clean Energy Technology courses for next year, even if you've already met with your guidance counselor to select classes. However, you may need to schedule another appointment. Clean Energy is available to all high school students, grades 9-12.

\*Tours of the Clean Energy Technology facility at the Center for Advanced Technical Studies are available to prospective students and parents upon request. Please contact Mr. Patrick Smallwood, Instructor (803-476-8647) [PLSmallw@Lexrich5.org](mailto:PLSmallw@Lexrich5.org)