



**SIEMENS**

*Ingenuity for life*

**Empower**

Inspiring ingenuity in K-12 education

[usa.siemens.com/empowerK12](https://usa.siemens.com/empowerK12)



Ingenuity. It's what makes the future exciting; and it's why we created Empower. We want to help educators like you inspire young minds to think big and explore their world.

Through Empower we support educators with programs, promotions, and challenges in the subjects of STEAM and sustainability. Our goal is to spark the curiosity and imagination of the next generation of leaders and innovators to explore technical careers, engineering fundamentals, and real-world issues by making these topics engaging, fun, and memorable.

Empower is a value-added component of our work with you. Members of the Siemens Education Team collaborate with your local district leadership team to develop a program that is reflective of your community's priorities and initiatives. Together, we can make ingenuity happen.

A photograph of two young women in a classroom setting. The woman on the right, with long dark hair and wearing a blue plaid shirt, is holding a black drone with green propellers. She is looking intently at the drone. The woman on the left, with light brown hair and wearing a beige cardigan, is looking at the drone with a slight smile. In the background, another student in a green shirt is visible at a desk. The scene is brightly lit, suggesting a window nearby.

## STEAM Education

STEAM programs foster technical thinking and creativity through topics in science, technology, engineering, arts/design, and mathematics. Through these programs, we share our love of these 21st century skills – and some of today's latest technology – with your students.



## Impact of energy and our world

**Empower** offers carefully designed programs that teach students about sustainability, alternative energy, waste management, energy efficiency, and more. We hope to inspire everyone to make small changes today and dream of big innovations for a better environment tomorrow.



## Programs for Grades K-12

- Career Exploration
- Energy Awareness
- Energy Enforcers Audit
- FUSE Studio

## Empower Programs for Grades K-12

### Career Exploration

Students need to see what real world jobs look and feel like. Allow us to plan these out with your district, according to what your individual goals are. This could mean career days, field trips, job shadowing, and other unique ideas.

### Energy Awareness

You can promote sustainability and energy efficient practices in your schools with this collection of posters, light switch covers, stickers, and more!

### Energy Enforcers Audit

Siemens engineers take students through a building audit of their school; complexity varies based on grade level.

### FUSE Studio

FUSE is made up of interest driven challenges that focus on STEAM topics and the development of 21st century skills. FUSE has 25+ challenges in the areas of robotics, electronics, biotechnology, graphic design, 3D printing, Android app development and more. This exciting program was developed in partnership with Northwestern University OSEP.

Learn more at: [FUSE.net](http://FUSE.net).





## Programs for Grades K-8

- PowerSave Advantage Program
- Solar Engineer Level 1
- Waste Management Level 1
- Wind Engineer Level 1

## Empower Programs for Grades K-8

### PowerSave Advantage Program

Developed in partnership with The Alliance to Save Energy, this year-long program focuses on energy literacy, behavior modification, and student leadership.

### Solar Engineer Level 1

Siemens engineers will bring in solar hydrogen classroom instructional kits and complete various challenges with students – showing them what it takes to be a true Solar Engineer! The students will also receive a take home quiz, certificate of completion, magnet, and more.

### Waste Management Level 1

Waste Management is the collection, transport, processing or disposal, managing, and monitoring of waste materials. This classroom instruction kit teaches students the fundamentals of recycling, and the purpose and overall impact that waste has on the environment. Classroom kits include several promotional materials for the school, such as recycling bin covers.

### Wind Engineer Level 1

Siemens Engineers will bring wind turbine classroom instructional kits into your classrooms. Students build turbines while learning about the functionality and purpose of different pieces, and the engineering principles behind storing and using wind energy. This challenge also comes with a take home quiz, certificate of completion, magnet, and more.





## Empower Programs for Grades 9-12

### Solar Engineer Level 2

Your students will step into the college world for an hour with a mini lecture and solar experiments – geared to show high schools students what they can expect in a college course setting.

### Waste Management Level 2

Students will be presented with an hour-long, college-level mini lecture and waste management lab. This program is designed for high school students to experience a lecture and experiment lesson, similar to what they will find in college.

### Wind Engineer Level 2

Your students will step into the college world for an hour with a mini lecture and wind turbine experiments. This is a hands-on experience that offers high schools students an example of what they can expect in a college course setting.



## Empower Programs for Educators

### **All-Star Educators- Resources for Teachers**

This online portal provides resources for teachers including exclusive professional development opportunities with partners TIES, Northwestern U, KidWind and more!

