

# UMAINE INSTITUTE FOR SELF

Sustainable Energy Leaders of the Future

June 23 – 26, 2019

Residential institute with  
**FULL SCHOLARSHIP**  
for high school girls



## UMaine Institute for SELF, Connecting young girls to STEM careers through research, mentoring and community service in forest bioproducts

The SELF Institute is a **cost-free** residential program for rural high school students. The three- and-a-half day program will focus on the responsible use of forest ecosystems as a building block for sustainable and renewable energy. Students will explore cutting-edge forest bioproducts research by participating in demonstrations, hands-on projects and field trips. Participants will use the New Balance Student Recreation Center.

### Applications Due April 1, 2019

For more information, contact Sheila Pendse  
[sheila.pendse@maine.edu](mailto:sheila.pendse@maine.edu) Or visit [umaine.edu/gem/](http://umaine.edu/gem/)

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### Institute activities include:

- Demonstrations of physical principles and properties of wood and wood products
- Visiting University Forest to learn about harvest methods and systems, logging equipment and costs
- Observation and work on chemical and physical processes in the making of transportation fuels (ethanol, jet fuel) from woody biomass and estimate the cost of manufacturing
- Meeting with a panel of female engineering faculty on career in engineering fields.

### To qualify for the institute applicants must:

- Be a high school student, preferably a sophomore
- Have an interest in science and technology
- Submit a report card
- Submit an essay on why she wants to participate in the institute
- Have at least one letter of recommendation