# THE UNIVERSITY OF MAINE

## **College of Engineering**

umaine.edu/gem/participating-schools/sustainable-energyleaders-of-the-future-self-application



Student at the Forest Bioproducts Research Institute plant.

#### UMaine Institute for Sustainable Energy Leaders of the Future (SELF)

The **SELF Institute** is a residential program for

Maine's rural high school students. The three-and-a-

half day program will focus on the responsible use

explore cutting-edge forest bioproducts research at

demonstrations, hands-on projects and field trips.

Recreational activities at the New Balance Student

of forest ecosystems as a building block for sustainable and renewable energy. Students will

the University of Maine by participating in

Recreation Center are also planned.

Connecting young rural girls to STEM careers through research, mentoring and community service in forest bioproducts



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
- Analysis of sustainability attitude and participation in focus group on renewable energy in Maine

## UMaine Institute for SELF Sustainable Energy Leaders of the Future

Join us in a residential institute for rural high school girls

#### June 22-25, 2014

## **To qualify for the institute** applicants must:

- Be a high school student, preferably a sophomore from Aroostook or Oxford county
- 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

For more information, contact Sheila Pendse, sheila.pendse@maine.edu, or visit umaine.edu/gem/participatingschools/sustainable-energy-leaders-ofthe-future-self-application for an online application.

### Applications are due April 30, 2014



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