ABSTRACT

The K-12 Partnership Program intends to improve math, science and technology education in local K - 12 school districts, while providing opportunities for students from Clarkson and St. Lawrence Universities to improve their professional skills. K - 12 fellows develop a project - oriented curriculum that integrates math, science, engineering and technology to solve an environmentally-based problem. Current curriculum topics include Renewable Energy, Solid Waste Reduction, and Water Quality. Fellows work with local teachers to teach this curriculum to students in middle and high schools. The teaching fellows are paid a stipend and learn leadership, communication and project management skills.

One of the program’s middle school level curricula is Renewable Energy. With our current energy situation, rising gas prices, and global warming, it is crucial to educate the next generation about energy conservation and awareness. This curriculum exposes the students to the basics concepts of energy, energy conservation and efficiency, and renewable energy sources through hands-on activities and projects.