

# RENEWABLE ENERGY SYSTEMS SPECIALIST



**BLONG TECHNOLOGY CENTER**

**Instructor**

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*Tuition and fees subject to change  
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## Program Description

This program is designed to meet the AAS requirement for individuals who wish to enter the job market with the skills to install, maintain, and troubleshoot photovoltaic systems, wind turbines, solar thermal systems, methane energy production systems, and biofuel manufacturing equipment. People in this position need a strong electro-mechanical background and therefore will receive such training. Renewable Energy System Technicians need to be able to analyze a site, install equipment, and have working knowledge of electrical systems, pumps, and motors related to renewable energies.

A Renewable Energy Systems Technician employed in the renewable energy field might:

- Assess sites for photovoltaic, solar thermal, and wind energy installations and analyze the feasibility of using such systems at certain locations.
- Work with customers to plan and design renewable energy systems.
- Install systems in a wide variety of settings.
- Work with concrete construction contractors for installing wind turbines and free-standing photovoltaic systems.
- Work with inverters and batteries, as well as grid-inter tie systems.
- Install pumps, storage tanks, and plumbing for solar thermal systems and for biofuels equipment.
- Troubleshoot photovoltaic, solar thermal, and wind energy systems and be able to repair problematic systems.
- Install, maintain, and troubleshoot ethanol and biodiesel manufacturing equipment, and methane energy production systems.

## Award Options

Associates of Applied Science Degree (AAS), Certificate

## Related Occupational Titles

Electrician, Renewable Energy Technician, Solar Systems Installer, Ethanol Manufacturing Maintenance Technician, Biodiesel Manufacturing Maintenance Technician, Windsmith

## Job/Earnings Outlook

Renewable energies are a rapidly growing field locally, regionally, nationally, and internationally. Considering the training that students will receive in this program, students will have a variety of potential employment options following graduation. With North American Board Certified Energy Practitioner (NABCEP) certification, students would be more marketable. Starting salary is approximately \$25,000 to \$35,000 annually.

For details, please visit this link <http://www.bls.gov/oco/>



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Since the colleges of EICCD are continually reviewing programs, information in the course catalog may change. Please visit [www.eicc.edu/catalog](http://www.eicc.edu/catalog) for any program updates which have occurred since the most recent edition of the catalog.

# RENEWABLE ENERGY SYSTEMS SPECIALIST

## Clinton Community College

1000 Lincoln Boulevard,  
Clinton, IA 52732  
(563) 244-7001  
1-800-638-0559  
www.facebook.com/  
clintoncommunitycollegeia

### Admissions Officer

Heather Mohler  
hmohler@eicc.edu  
(563) 244-7007  
FAX (563) 244-7107

## Muscatine Community College

152 Colorado Street,  
Muscatine, IA 52761  
(563) 288-6001  
1-800-351-4669  
www.facebook.com/  
muscatinecommunitycollegeia

### Admissions Officer

Katie Watson  
klwatson@eicc.edu  
(563) 288-6012  
FAX (563) 288-6014

## Scott Community College

500 Belmont Road,  
Bettendorf, IA 52722  
(563) 441-4001  
1-800-895-0811  
www.facebook.com/  
scottcommunitycollegeia

### Admissions Officer

LaDrina Wilson  
lnwilson@eicc.edu  
(563) 441-4007  
FAX (563) 441-4101

[www.eicc.edu](http://www.eicc.edu)

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*Program requirements subject to change. Please check with your advisor.*

## A.A.S. Degree

### SESSION I

ELE:101	Industrial Safety	1
ELE:115	Basic Electricity I	2
ELE:124	Tools/Adapters/Instruments	2
ENG:107	Composition I: Technical Writing	3
		<b>8</b>

### SESSION II

EGT:133	Hydraulics/Pneumatics I	2
ELE:116	Blueprint Reading	1
ELE:127	Troubleshooting	1
ELE:131	Basic Electricity II	2
ENG:107	Composition I: Technical Writing (Cont.)	2
		<b>6</b>

### SESSION III

CSC:112	Fundamental Computers for Technicians	2
ELE:128	Electrical Systems I	3
ELE:144	Basic Electronics I/A	1.5
MAT:722	Industrial Math & Measurement I/A	1.5
		<b>8</b>

### SESSION IV

CSC:113	Fundamental Computers for Technicians	2
EGT:134	Hydraulics/Pneumatics II	4
ELE:145	Basic Electronics I/B	1.5
MAT:723	Industrial Math & Measurement I/B	1.5
		<b>9</b>

### SESSION V

ELE:129	Electrical Systems II	3
PHY:173	Applied Physics I/A	1.75
SER:100	Intro. to Renewable Energy Applications	2
SER:102	History of Power Generation	3
		<b>9.75</b>

### SESSION VI

ELE:134	Electrical Systems Controls	3
PHY:174	Applied Physics I/B	1.75
SER:103	Renewable Energy Site Assessment	3
		<b>7.75</b>

### SESSION VII

SER:104	Small Wind Power Systems	3
SER:105	Small Wind Tower Systems	3
SER:108	Inverters, Chargers and Storage Devices	3
		<b>9</b>

### SESSION VIII

EGT:116	Continuous Quality Management	3
ELE:139	Electrical Systems Analysis	3
SER:109	Monitoring and Maintenance	3
		<b>9</b>

## A.A.S. TOTAL

**66.5**