



2015-2016 Post-Secondary Nominee Presentation Form

ELIGIBILITY CERTIFICATIONS

College or University Certifications

The signature of college or university President (or equivalent) on the next page certifies that each of the statements below concerning the institution’s eligibility and compliance with the following requirements is true and correct to the best of their knowledge.

1. The college or university has been evaluated and selected from among institutions within the Nominating Authority’s jurisdiction, based on high achievement in the three ED-GRS Pillars: 1) reduced environmental impact and costs; 2) improved health and wellness; and 3) effective environmental and sustainability education.
2. The college or university is providing the U.S. Department of Education Office of Civil Rights (OCR) access to information necessary to investigate a civil rights complaint or to conduct a compliance review.
3. OCR has not issued a violation letter of findings to the college or university concluding that the nominated college or university has violated one or more of the civil rights statutes. A violation letter of findings will not be considered outstanding if OCR has accepted a corrective action plan to remedy the violation.
4. The U.S. Department of Justice does not have a pending suit alleging that the college or university has violated one or more of the civil rights statutes or the Constitution’s equal protection clause.
5. There are no findings by Federal Student Aid of violations in respect to the administration of Title IV student aid funds.
6. The college or university is in good standing with its regional or national accreditor.
7. The college or university meets all applicable federal, state, local and tribal health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

U.S. Department of Education Green Ribbon Schools 2015-2016

Public 4-Year Public 2-Year Private Non-Profit

Name of President/Chancellor: Dr. Linda Allen
(Specify: Ms., Miss, Mrs., Dr., Mr., etc.) (As it should appear in the official records)

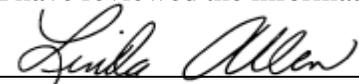
Official College or University Name: Hawkeye Community College
(As it should appear on an award)

College or University Street: 1501 E Orange Road
Mailing Address: P.O. Box 8015, Waterloo, IA 50704-8015
(If address is P.O. Box, also include street address.)

County: Black Hawk IPEDS Number*: 153445
Telephone: 319-296-4201 Fax: 319-296-4220
Web site/URL: www.hawkeyecollege.edu E-mail: linda.allen@hawkeyecollege.edu

*Integrated Postsecondary Education Data System

I have reviewed the information in this application and certify that to the best of my knowledge all information is accurate.



(President’s/Chancellor’s Signature) Date: January 21, 2016



Nominating Authority's Certifications

The signature by the Nominating Authority on this page certifies that each of the statements below concerning the college or university's eligibility and compliance with the following requirements is true and correct to the best of the Authority's knowledge.

1. The college or university has been evaluated and selected from among institutions within the Nominating Authority's jurisdiction, based on high achievement in the three ED-GRS Pillars: 1) reduced environmental impact and costs; 2) improved health and wellness; and 3) effective environmental and sustainability education.
2. The college or university meets all applicable federal, state, local and tribal health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

Name of Nominating Agency: Iowa Department of Education

Name of Nominating Authority: Mr. Thomas Cooley

(Specify: Ms., Miss, Mrs., Dr., Mr., Other)

I have reviewed the information in this application and certify to the best of my knowledge that the school meets the provisions above.

A handwritten signature in black ink, appearing to read "Thomas Cooley", is written over a horizontal line.

Date: 1/29/2016

(Nominating Authority's Signature)

SUMMARY AND DOCUMENTATION OF NOMINEE'S ACHIEVEMENTS

Provide a coherent summary that describes how your college or university is representative of your jurisdiction's highest achieving green school efforts. Summarize your strengths and accomplishments in all three Pillars and their underlying Elements. Then, include concrete examples for work in every Pillar and Element. Only institutions that document progress in every Pillar and Element can be considered for this award.

SUBMISSION

The nomination package, including the signed certifications and documentation of evaluation in the three Pillars should be converted to a PDF file and emailed to ed.green.ribbon.schools@ed.gov according to the instructions in the Nominee Submission Procedure.

OMB Control Number: 1860-0509

Expiration Date: March 31, 2018

Public Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this information collection is 1860-0509. Public reporting burden for this collection of information is estimated to average 37 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The obligation to respond to this collection is required to obtain or retain benefit P.L. 107-110, Sec. 501, Innovative Programs and Parental Choice Provisions. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Department of Education, 400 Maryland Ave., SW, Washington, DC 20202-4536 or email ICDocketMgr@ed.gov and reference the OMB Control Number 1860-0509. Note: Please do not return the completed ED-Green Ribbon Schools application to this address.

SUMMARY AND DOCUMENTATION OF NOMINEE'S ACHIEVEMENTS

Hawkeye Community College is located in Waterloo, Iowa. As an open-door two-year public institution, Hawkeye serves a diverse student body in a ten-county area (Merged Area VII) of northeast Iowa. HCC has graduated over 40,000 credit students since July 1, 1966. Currently, Hawkeye serves over 5,000 students of which 42% are Federal Pell Grant recipients. Our student body contains many non-traditional students including working adults who are raising a family as well as veterans and military-connected individuals. Hawkeye's commitment to reducing its carbon footprint is demonstrated by the green transformation taking place across the College. Hawkeye has successfully demonstrated progress in the three Pillars by reducing environmental impact and costs; improving the health and wellness of schools, students, and staff; and providing environmental education, which teaches many disciplines, and is especially good at effectively incorporating STEM, civic skills, and green career pathways. The College is committed to continuing this green transformation for decades to come.

Pillar 1: The new Health and Education Services Center (HESC), and Regional Transportation Center (RTC) were designed to Leadership in Energy and Environmental Design specifications. Hawkeye uses EPA Energy Star Portfolio Manager to track the college's energy consumption and School Dude to help monitor and forecast utility costs. The utilization of these programs and Hawkeye's energy efficiency initiatives have decreased energy costs over \$100,000, qualified for nearly \$142,000 in energy rebates and reduced usage by 2,191,536 kW hours. Buildings are commissioned to exceed ASHRAE's minimum energy performance and automatically adjust settings from "occupied" when open to "unoccupied" when closed to conserve energy. On-site renewable energy use includes solar panels on one of the farm's barns to power the electricity and lights in the facility, and a small windmill to power the farm's parking area lights. Both projects were completed by students. To improve water quality students collaborated in the remediation of two ponds on campus providing cleaner water into the natural waterways. Buildings built or renovated since 2009 are equipped with low flow water closets, urinals, shower heads, and lavatory faucets to conserve water.

The XLERATORing Waste Reduction initiative was implemented in 2013 to reduce solid waste streams generated on campus. Xlerator hand air dryers were installed reducing paper towel usage by more than 3,600 pounds and saving approximately 67 trees each year. 135 recycling bins were distributed across campus. The College also recycles scrap materials from non-reusable items and composts pre-consumer waste. Hawkeye's recycling efforts divert over 50 tons of waste each year from landfills resulting in an estimated annual savings of over \$31,600. Alternative transportation on campus includes using electric carts on campus. The metro transit bus is available up to 13 times per day at multiple stops across the campus. Hawkeye provides shuttle bus transportation for accelerated commercial truck driving students between the RTC and hotel.

Pillar 2: Hawkeye's high standards of coordinated school health earned a Blue Zones Worksite designation in 2012 after instituting healthy choices in the cafeteria and vending machines, an ongoing focus on exercise and weight loss programs, new walking paths, and stress reduction information available to employees and students. The Health Wellness Fair hosted each fall is attended by over 300 students and includes 50 area vendors that provide wellness services. The HESC offers free workout space for students, faculty, and staff and includes an indoor walking track, two half size basketball courts/multipurpose space for intramurals, group fitness studio, as well as a cardio and resistance equipment workout room. Preventative dental treatments and minor restorative care is offered on campus at minimal cost for students, their families and the community. Hawkeye has hosted multiple 5K run/walks for the community with proceeds benefiting student scholarships and the student emergency fund. In addition to making Iowa-grown fresh fruits and vegetables available in the cafeteria, horticulture students partnered with Iowa State Extension and Blue Zones to develop a community garden for the growing influx of Burmese refugees.

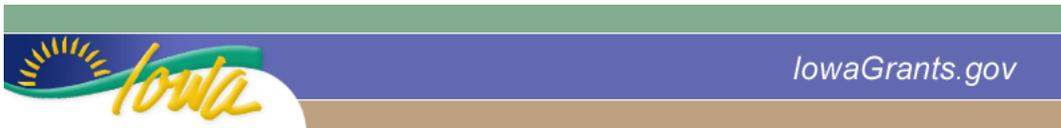


Health and wellness services include an on-site student health clinic with supportive health, education, and counseling services. Counselors work with students to reduce stress and increase success through assistive social services like emergency financial assistance, and extremely low-cost, quality, on-site childcare. Hawkeye is GREENGUARD Certified. Construction projects comply with ASHRAE and the Indoor Air Quality Management standards by using low emitting volatile organic compounds (VOC). Smoking is banned campus wide.

Pillar 3: Students use the College’s diverse grounds for hands on learning about the relationships between environmental, energy, and human systems. In 2013, Hawkeye Community College received the National Association of Agricultural Educators Outstanding Postsecondary/Adult Agricultural Education Program Award for its quality of instruction, experiential learning, and collaboration. Most recently, Sustainable Construction and Design students have been constructing an energy efficient tiny house to gain practical and relevant skills in design, layout, and construction and finishing of energy efficient homes. The house will be approximately 220 square feet of living space and will include solar panels to help offset electricity costs.

Students in the Agriculture, Landscape & Turf, Construction Equipment Operation and Natural Resources Management incorporated STEM concepts in their collaborative project to remediate two ponds on campus to allow for better storm water control, provide cleaner water into the natural waterways, and develop better habitat for aquatic, amphibious, mammalian, and avian species preparing them to enter the 21st century technology-drive economy.

Students cultivate civil skills by cooperating with city, state and federal agencies on projects. Sustainable Construction and Design students helped install “smart thermostats” in an area community and build a home with Habitat for Humanity. Natural Resources students assisted with initiatives including Trumpeter Swan roundup efforts, fish sampling and seining, and timber stand improvement projects. In a global engagement effort, Hawkeye’s agriculture students taught a University in Haiti to use drip irrigation for their crops, perform soil tests for more accurately using fertilizer sources, and identify sources of organic fertilizer.



FY16 Iowa Green Ribbon Schools College Application

Hawkeye Green Ribbon

Submitted Date:

01/07/2016 1:41 PM

Organization Information

Organization Name: Hawkeye Community College
 Organization Type: Community College
 DUNS: 07-348-5716
 Organization Website: www.hawkeyecollege.edu
 Address: 1501 E. Orange Road
 Waterloo Iowa 50704
City State/Province Postal Code/Zip
 Phone: 319-296-2320

Cover Sheet-General Information

Authorized Official

Name: Dr. Linda Allen
 Title: President
 Organization: Hawkeye Community College
 Address: 1501 E Orange Road
 City/State/Zip*: Waterloo Iowa 50704
City State Zip
 Telephone Number: 319-296-4201
 E-Mail: linda.allen@hawkeyecollege.edu

Fiscal Officer/Agent

Name: Dan Gillen
 Title: Vice President, Administration and Finance
 Organization: Hawkeye Community College
 Address: 1501 E Orange Road
 City/State/Zip: Waterloo Iowa 50704
City State Zip
 Telephone Number: 319-296-4268
 E-Mail: daniel.gillen@hawkeyecollege.edu

College/University Contact Information

College/University Name: Hawkeye Community College
 Street Address: 1501 E Orange Road
 City: Waterloo
 State: Iowa
 Zip Code: 50704



Website:	www.hawkeyecollege.edu
Facebook page:	www.facebook.com/HawkeyeCollege
President/Chancellor Name:	Dr. Linda Allen
President/Chancellor E-mail Address:	linda.allen@hawkeyecollege.edu
Telephone Number:	319-296-4201

College/University Enrollment Profile:

Undergraduate Enrollment:	3,686
Graduate Enrollment:	0
Percent of Undergraduates Receiving Pell Grants:	42.72%
Graduation rate (150% of normal time):	28.0%
Average Institutional Net Price:	0

Basic Carnegie Classification

Asian American and Native American Pacific Islander-serving Institution (AANAPISI)	No
Alaska Native-serving institution or a Native Hawaiian-serving institution (ANNH)	No
Historically Black college or university (HBCU)	No
Hispanic-serving institution (HSI)	No
Native American-serving nontribal institution (NASNTI)	No
Predominantly Black Institution (PBI)	No
Tribal College or University (TCU)	No

Summary Narrative:

Provide a narrative describing efforts to reduce environmental impact and costs; improve student and staff health; and provide effective environmental and sustainability education. Focus on unique and innovative practices and partnerships. Be sure to cover every ED-GRS Pillar and Element.

Hawkeye Community College serves over 5,000 students of which 42% are Federal Pell Grant recipients. The college serves many non-traditional students including working adults who are raising a family as well as veterans and military-connected individuals. Hawkeye's commitment to reducing its carbon footprint is demonstrated by the green transformation taking place across the college. Since 2012 energy efficiency initiatives have decreased the college's annual energy costs more than \$100,000. These efforts qualified the college for energy rebates of nearly \$142,000 and reduced energy usage by 2,191,536 kW hours. Energy efficiency initiative's including green construction and renovation have allowed the main campus to build an additional 59,548 S.F. of space while maintaining energy usage at below pre-addition levels. Dedicated in 2011 and 2012 the Health and Education Services Center (HESC), and Regional Transportation Center were designed to Leadership in Energy and Environmental Design specifications. The geothermally heated and cooled HESC also features floor-to-ceiling windows for energy-efficient and environmentally-friendly design elements.

The XLERATORing Waste Reduction initiative was implemented in 2013 to reduce the solid waste streams generated on campus. With grant assistance from the Iowa Department of Natural Resources (IA DNR), Xlerator hand air dryers were purchased and installed. These dryers have reduced paper towel usage by more than 3,600 pounds saving approximately 67 trees each year. The college has also distributed 135 recycling bins across campus with grant assistance from Sam's Club, the Coca-Cola Foundation, Rockwell Collins and the IA DNR. Funds received from recycling paper and cardboard, and plastic and glass drink bottles have been used to implement a "Go Green" Scholarship. The first "Go Green" Scholarship was awarded Fall 2014. Pre-consumer waste is picked up for composting. The Scrap and Sell Program generates a revenue stream through the removal of scrap materials from non-reusable items such as copper, motors, ballasts, capacitors, lead acid batteries, servers and motherboards as well as lithium ion, nickel-metal hydride and nickel-cadmium batteries. Recycling efforts have resulted in over 50 tons of waste being diverted each year from the landfill with an estimated annual savings of over \$31,600.

In 2012, Hawkeye Community College became the first educational institution in the Cedar Valley to earn the Blue Zones Worksite designation. Hawkeye earned the Blue Zones designation by instituting healthy choices in the cafeteria and vending machines; its ongoing focus on exercise and weight loss programs; the development of new walking paths that encourage employees to move naturally throughout the day; and by making stress reduction information and events available to students. The HESC offers free workout space for students, faculty, and staff and includes an indoor walking track, two half size basketball courts/multipurpose space for intramurals, group fitness studio, as well as a cardio and resistance equipment workout room.

Hawkeye's diverse grounds include a 400-acre working farm, pond areas, Native Demonstration Gardens, and the Cedar Valley Arboretum & Botanic Gardens and provide a hands on environment for students to put the sustainable practices they are learning into action. Sustainable projects include the installation of solar panels on one of the farm's barns to power the electricity and lights in the facility, and the installation of a small windmill to power the farm's parking area lights. Students in the Agriculture, Landscape & Turf, Construction Equipment Operation and Natural Resources Management collaborated to remediate two ponds on campus to allow for better storm water control, provide cleaner water into the natural waterways, and develop better habitat for aquatic, amphibious, mammalian, and avian species. Most recently, the Sustainable Construction and Design Students have been constructing an energy efficient tiny house allowing students to gain practical and relevant skills in the design, layout, and construction and finishing of energy efficient homes. The house will be approximately 220 square feet of living space plus a loft and will include solar panels to help offset electricity costs.

Hawkeye helps students cultivate civil skills by cooperating with city, state and federal agencies on projects. Natural Resources students have assisted with IA DNR initiatives including Trumpeter Swan roundup efforts, fish sampling and seining, and timber stand improvement projects. Sustainable Construction and Design Students have helped install "smart thermostats" in an area community, and build a home with Habitat for Humanity. Agriculture students have assisted a University in Haiti to use drip irrigation for their crops, perform soil tests to more accurately use fertilizer sources, and to help identify sources of organic fertilizer.

Hawkeye provides access to affordable quality education. Cognizant of the issues facing many students, the approach to health is holistic and integrates the broader ecology of the student experience that may affect health. Counselors work with students to reduce stress and increase success through assistive social services like emergency financial assistance, and extremely low-cost quality on-site child care.

Participation Summary:

Is your school, district, or college participating in a local, state or national school program, such as EPA ENERGY STAR Portfolio Manager, EcoSchools, Project Learning Tree, or others, which asks you to benchmark progress in some fashion in any or all of the Pillars?

Yes



Program(s) and level(s) achieved:

EPA Energy Star Portfolio Manager is used to track the college's energy consumption. It helps the college set a baseline and track energy goals ensuring the initiatives being completed throughout the buildings are impactful. School Dude is also used to help monitor utility bills and forecast future billing. Understanding the college's energy usages is the most important factor in reducing energy usage and costs. By utilizing these programs and partnering with the local utility Hawkeye has decreased energy costs more than \$100,000, qualified for energy rebates of almost \$142,000 and reduced energy usage by 2,191,536 kW hours allowing the addition of 59,548 square foot of space while maintaining energy usage below pre-addition levels. Hawkeye is a member of the College and University Recycling Coalition which represents over 900 recycling and sustainability professionals. Our membership provides access to extensive resources including webinars, guides and a newsletter providing best practices and new ideas for recycling as well as coalition updates. As a result of our recycling efforts, over 50 tons of waste is diverted each year from the landfill with an estimated annual savings of more than \$31,600.

The college uses the NAPE Dashboard data provided by the Iowa Department of Education, in partnership with the National Alliance for Partnerships in Equity (NAPE). The department and NAPE provide Hawkeye training on and access to the data reported by the community colleges and public school districts. By analyzing the data provided we can identify trends in participation and completion by program and by select student groups including students with disabilities; gender; race by gender; and economically disadvantaged. This data is then utilized for decision making in the nontraditional career and technical program improvement process. In addition to analyzing Hawkeye's data, the program allows us to compare our performance to other community colleges with like programs.

Awards Summary:

Has your school, district, college, staff or student body received any awards for facilities, health or environment?

Yes

Award(s) and year(s):

Awards received by the college, staff or student body relating to facilities, health, or environment include:

- 2015 – Hawkeye President's Innovation of the Year Award to the Green Team for campus-wide initiatives reducing environmental impact and costs.
 - 2014 – Brad Kinsinger, Global Agriculture Learning Center's weekly blog received the Ideas Unlimited Award from the Iowa Association of Agricultural Educators
 - 2014 – Coca-Cola Foundation award of 50 recycling bins
 - 2014 – Iowa Department of Natural Resources award of \$14,500 for XLERATOR hand dryers and recycling bins
 - 2014 – Rockwell Collins award of \$1,000 for recycling bins
 - 2013 – Hawkeye Community College's Agriculture Education program received the Outstanding Post-Secondary/Adult Agriculture Education Program Award from the Iowa Association of Agriculture Educators and from the National Association of Agriculture Educators.
 - 2013 – Brazil Course for Agriculture Educators received the Ideas Unlimited award in the Continuing Education division
 - 2013 – Awarded GREENGUARD Certification
 - 2013 – Sam's Club award of \$1,000 for recycling bins
 - 2012 – First educational institution in the Cedar Valley to earn the Blue Zones Worksite designation for inspiring, encouraging and promoting actions and lifestyles to create a healthier work environment and community
 - 2012 – Terri Rogers, Natural Resources Volunteer for 2011, Hartman Reserve Nature Center
 - 2009 – Awarded \$25,000 in support of Native Demonstration Gardens and to showcase their connection to the Cedar Valley Arboretum & Botanic Gardens by Iowa Department of Transportation: Living Roadway Trust
 - 2008 – Terri Rogers, Green Education Award by Honda Motorwerks: Hope3.org
 - 2006 – Site Excellence Award by Iowa Department of Transportation: Living Roadway Trust
 - 2003 – Terri Rogers, Volunteer of the Year Award by Trees Forever
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College Pillar 1: Reduced Environmental Impact and Costs

Describe how your college or university is reducing environmental impact and costs by reducing or eliminating greenhouse gas emissions; improving water quality, efficiency, and conservation; reducing waste production; and using alternative transportation.

Hawkeye Community College's ongoing commitment to reducing its environmental footprint by implementing cost effective and efficient green initiatives is demonstrated by the green transformation taking place across the main campus and other Hawkeye locations. Dedicated in 2011 and 2012 respectively the new Health Education and Services Center (HESC), and Regional Transportation Center (RTC) were designed to "Leadership in Energy and Environmental Design" (LEED) specifications. The HESC building is heated and cooled with a geothermal system and features floor-to-ceiling windows for energy-efficient and environmentally-friendly design elements. Established in 2012 Hawkeye's Green Campus Subcommittee has been monitoring and making recommendations to advance the green transformation taking place across the college. In recognition of their outstanding efforts, the "Green Team" was awarded the President's Innovations of the Year award in 2015. In 2012, Hawkeye partnered with MidAmerican Energy to reduce its energy usage. Since 2012 the college's annual energy costs for the main campus have decreased more than \$100,000 qualifying Hawkeye for energy rebates of nearly \$142,000 and reduced energy usage by 2,191,536 kW hours. The college's overall energy costs are lower now than they were prior to the construction of the 46,405 square foot HESC building and 13,143 square foot addition to Buchanan Hall for the Advanced Technology Center. To reduce light pollution and energy usage, the college uses direct interior illumination and dark sky compliant fixtures on exterior lighting focusing light on the actual objects and areas to be illuminated. Energy efficient motion sensors have been installed in all campus bathrooms and select office and meeting rooms. Heating and cooling systems have been scheduled to only operate when buildings are occupied. To conserve water on campus all buildings that have been built or renovated since 2009 have been equipped with low flow water closets, urinals, shower heads, and lavatory faucets. Outdated fixtures and faucets in other facilities are being phased out as they require repair resulting in 70 additional low flow fixtures being installed on campus. Hot water circulation pumps have been scheduled to only operate when buildings are occupied. Water usage for landscaping is limited to one small irrigation system. Construction on campus is required to comply with construction waste management and recycled requirements. The College requires construction projects include a minimum of 10% recycled materials and divert a minimum of 50% of their waste from landfills. Construction projects are also required to utilize a minimum of 10% regional material.

Our students are engaged in helping us reduce the college's environmental impact and costs. Students enrolled in the Alternative Energy Program completed two hands on sustainable energy projects which included the installation of solar panels on one of the college's barns to power the electricity and lights in the facility. They also installed a small windmill to power the parking lots at the farm. Students in the Agriculture, Landscape & Turf, Construction Equipment Operation and Natural Resources Management collaborated to remediate two ponds on campus to allow for better storm water control, provide cleaner water into the natural waterways, and develop better habitat for aquatic, amphibious, mammalian, and avian species. These students and programs have also collaborated on designing and rebuilding grass waterways to control erosion and mitigate water damage after rainfall events. Through multiple awards from the Iowa Department of Transportation Living Roadway Trust Hawkeye students have designed, planted, maintained and expanded the college's Native Plant Demonstration Gardens. Through this program students and the community learn effective integrated roadside vegetation management practices. The inclusion of native species is essential for erosion control and reducing water runoff.

After an internal review of waste data in 2013, Hawkeye's Facilities Department and its Green Subcommittee established a joint and pressing need for reduction of campus waste and began the XLERATORing Waste Reduction initiative. The goal of this initiative was to reduce 17.44 tons of solid waste by addressing three significant component waste streams generated on campus: compostable paper towel waste produced in restrooms; pre-consumer food waste created in the cafeteria; and plastic, glass, aluminum, paper and cardboard generated in public gathering areas. In September 2014, Hawkeye secured a grant from the Iowa Department of Natural Resources to



purchase Xlerator hand air dryers and recycling bins. These dryers are very energy efficient and have reduced paper towel usage by more than 3,600 pounds saving approximately 67 trees each year. A recently completed Life Cycle Assessment Study determined that XLERATOR hand dryers reduce the hand drying carbon footprint up to 70% versus conventional dryers and even 100% recycled paper towels. The XLERATOR also meets a number of GreenSpec green certification standards, including those for energy conservation, low maintenance requirements and waste reduction. The money they save the college is the equivalent of a half time staff position.

The college has distributed 135 recycling bins across campus with grant assistance from Sam's Club, the Coca-Cola Foundation, Rockwell Collins and the Iowa Department of Natural Resources. It is estimated the recycling bins save the college more than \$19,500 in landfill and waste disposal costs. In 2013 the college started recycling paper and cardboard. Instead of paying the disposal of paper and cardboard the college is getting paid to recycle these materials. Funds from these recycling efforts have been used to implement a "Go Green" Scholarship. The first scholarship was awarded for the Fall 2014 term. To reduce the waste generated from plastic water bottles, the college has added bottle filling stations in four facilities. As the remaining drinking faucets require replacement the standard will be to replace them with additional bottle filling stations. In addition to the bottle refilling stations, the college is reducing waste through a reusable cup program offered by the cafeteria. The discounted price offered by the cafeteria on any item from the drink and soda fountain is popular with students and employees resulting in the use of fewer cups and less waste. Starting in January 2016 all the cafeteria's to go items will be packaged in BioSelect containers made from 100% recycled materials. Hawkeye's Scrap and Sell Program generates a revenue stream through the removal of scrap materials from non-reusable items such as copper, motors, ballasts, capacitors, lead acid batteries, servers and motherboards as well as lithium ion, nickel-metal hydride and nickel-cadmium batteries.

The Iowa Department of Natural Resource Recycling web page reports that Iowa's recycling industry generates \$2.4 billion in annual industrial output and supports more than 11,400 jobs. Our recycling initiative supports the many companies and employees doing such work. By purchasing XLERATOR hand dryers, recycling and composting pre-consumer waste, Hawkeye Community College is supporting the green industry. The purchase of Made in the USA Certified XLERATOR hand dryers supports the market for United States manufacturing sector and the related U.S. Labor Market.

Hawkeye's efforts to reduce its environmental footprint include the use of alternative transportation. The college's "green" initiatives include the use of electric carts on campus rather than gas powered. The metro transit bus offers an alternate mode of transportation for students to take to campus. Depending on the term, the metro bus is available up to thirteen times per day at multiple stops across the campus. Bike racks are available around campus for students and staff who choose this alternative type of transportation. Hawkeye also offers motorcycle parking. Hawkeye has developed an accelerated commercial truck driving training for an area company. Hawkeye's shuttle bus provides transportation for these individuals to and from the training center and their hotel. The college also encourages the use of fleet vehicles if more than three staff are driving to the same location rather than driving separately.

Identify your institutions energy-efficient facilities and practices, ecologically beneficial uses of grounds, and methods of disposal for solid and hazardous wastes.

The new Health Education and Services Center (HESC) and Regional Transportations Center (RTC) were designed to "Leadership in Energy and Environmental Design" (LEED) specifications. The HESC building is heated and cooled with a geothermal system and features floor-to-ceiling windows for energy-efficient and environmentally-friendly design elements. Hawkeye also adds windows to all new buildings and remodels to maximize the use of natural light while reducing the energy consumption that would be required to power interior lighting. Lighting sensors have been installed in all restrooms. Lighting sensors are also being installed in the classrooms of all new construction or remodel projects. Parking lot lights are on day light sensors and timers to allow some lights to shut off in the middle of the night when staff and students are not here. The conference center in Tama Hall is only heated or cooled when the rooms are being used. All other buildings automatically adjust settings from "occupied" when buildings are open to "unoccupied" when buildings are closed. During holiday breaks and other times when the



college is closed, all buildings are set to unoccupied. Hawkeye has installed variable speed drives in three separate buildings to use our equipment more efficiently. Vending Mizers have been added to all vending machines on campus except sandwich machines to improve their energy efficiency. Regular preventative maintenance plays an important role in maintaining the energy efficiency gains made by Hawkeye Community College. To increase the ability of campus buildings and parking lots to stay cool during the summer months, roofing materials used have a minimum Solar Reflectance Index (SRI) of 78. Paving materials used have a minimum SRI of 29. Piping with insulation missing or deteriorated over the years has been replaced. All appliances are phased out with new energy star appliances which also includes water heaters. During our construction projects, we also commission the buildings to exceed ASHRAE's minimum energy performance. We optimize energy performance through the open loop geo-thermal system, extra roof insulation, high efficiency lighting, and daylight harvesting. Throughout our construction process, we also install mechanical ventilation to comply with ASHRAE. We adhere to the Indoor Air Quality (IAQ) Management standards by using low emitting volatile organic compounds (VOC). The paints are VOC compliant products and our carpet systems are low VOC adhesives and green label plus program. In addition smoking is banned campus wide.

Hawkeye's IT department has also made great strides in helping our institution become more efficient by using energy efficient HP LCD monitors and energy efficient HP desktop computers. The monitors go into "Standby" or "Sleep" after being idle for a period of time allowing them to use minimal power. All offices and lab computers are set on duplex. Where appropriate software services are delivered via a virtualized cloud of technology resources. The IT department also utilizes VMware for server consolidation. Since VMware is extremely green, the gross reduction in kilowatts and BTUs has been significant. Faculty, staff, and student self-service systems have eliminated many paper based processes and moved them fully online. Web conferencing is also used where appropriate.

Our students are engaged in helping maintain Hawkeye's diverse grounds and benefit from the outdoor classroom experiences we provide. In 2014, students in the heavy equipment class sorted a large stockpile of dirt, trees, and debris on campus. All the trees were shredded into mulch which has been used on campus for all landscaping mulched areas. Students in the Agriculture, Landscape & Turf, Construction Equipment Operation and Natural Resources Management collaborated to remediate two ponds on campus to allow for better storm water control, provide cleaner water into the natural waterways, and develop better habitat for aquatic, amphibious, mammalian, and avian species. These students and programs have also collaborated on designing and rebuilding grass waterways to control erosion and mitigate water damage after rainfall events. Our heavy equipment class is in process of dredging our two drainage ponds to remove silt and deepen the ponds to allow our natural resource programs a practical hands-on learning area to study, and provide a place to learn kayaking and canoeing on campus. This heavy equipment class also redirected a water way to slow down runoff and significantly decreased the soil erosion that was occurring. Hawkeye has a 400-acre farm lab to provide hands on learning experiences for its agriculture classes. The Agriculture program teaches cutting edge technology and is always looking for ways to improve its sustainable farming practices to reduce its impact on the environment. The farm is currently moving toward no-till crop production to lessen fuel use and increase carbon sequestration. The Natural Resources program maintains the campus's prairie areas and completes prescribed burns in October and April each year. Through grant support from the Iowa Department of Transportation Living Roadway Trust, Hawkeye students have planted, maintained and expanded the college's Native Plant Demonstration Gardens which include a total of 131 native species throughout the Cedar Valley Arboretum & Botanic Gardens next to campus, and the prairie areas. Students have the opportunity to participate in annual Earth Day activities.

Hawkeye has been able to distribute 135 recycling bins throughout the campus utilizing grant dollars from Sam's Club, the Coca-Cola Foundation, Rockwell Collins, and the Iowa Department of Natural Resources. These bins have saved the College more than 90,000 lbs annually in landfill and waste disposal. In 2013 the College started to recycle paper and cardboard and is no longer paying for its disposal, but instead is getting paid to recycle this waste stream. The funds earned from these recycling efforts are put toward a "Go Green" scholarship. Hawkeye's Scrap and Sell Program generates a revenue stream through the removal of scrap materials from non-reusable items such as copper,



motors, ballasts, capacitors, lead acid batteries, servers and motherboards as well as lithium ion, nickel-metal hydride and nickel-cadmium batteries. The Print Shop collects printer cartridges, such as laser, jet ink, and ink cartridges to ship to a recycling center. The IT department recycles outdated hardware. They also save hundreds of thousands of pages of paper by not printing, but archiving data. As of January 2016 all takeout items purchased in the cafeteria will be packaged in BioSelect biodegradable paper products made from 100% recycled materials.

In fall 2014, Hawkeye instituted pre-consumer waste composting, in an effort to conserve an additional 5.2 tons of landfill space. Previously we sent 200 pounds per week of pre-consumer food waste that was sent directly to the landfill. Hawkeye is collaborating with a growing and young business, GreenRU in Blairsburg, IA to help us efficiently reroute this food from the landfill to a facility where it can be composted. GreenRU turns food scraps and other organics into rich compost for use on farm land, landscaping, sports turf, and other land applications. Since its inception in 2010, GreenRU has diverted over 300,000 tons of food scraps and compostable organic material and services over 250 clients throughout Iowa, Illinois, Missouri, Nebraska and Minnesota. This type of growth in the company positively impacts not only our state's economy and employment market, but also builds capacity for increased waste diversion. The more route density they can create, the more effectively they can offer coverage/"green" the entire state with their services. Chamness Technology, Inc. is the parent company for GreenRU and is also headquartered in Blairsburg, Iowa. Chamness Technology, Inc. has been composting non-hazardous industrial waste streams for 29 years and employs 150 people. As a result of our efforts over 50 tons is diverted each year from the landfill with an estimated annual savings of more than \$31,600.

College Pillar 2: Improve the Health and Wellness of Students and Staff

Describe how your college or university improves the health and wellness of students, faculty and staff by integrating a campus-wide environmental health program and promoting sound health and wellness practices.

Discuss integrated pest management, contaminant controls and ventilation, asthma controls, indoor air quality, moisture control, and chemical management. Address the amount and type of outdoor time that your students and staff have, as well as the types of fresh, local, and organic food that they eat. Other components you may want to include are: health education, health services, counseling, psychological and social services, staff health promotion and family and community involvement.

In December 2012, Hawkeye Community College became the first educational institution in the Cedar Valley to earn the Blue Zones Worksite designation. Blue Zones is a nationally recognized strategy embraced by the State of Iowa as part of the Healthiest State Initiative challenging residents to make Iowa the healthiest state in the nation by 2016 as measured by the Gallup Healthways Well-Being Index®. The Blue Zone Worksite designation is a reflection of our institutional commitment to actions and lifestyles creating healthier work environments resulting in a healthier community. Hawkeye earned the Blue Zones designation by instituting healthy choices in the cafeteria and vending machines; its ongoing focus on exercise and weight loss programs; the development of new walking paths that encourage employees to move naturally throughout the day; and by making stress reduction information and events available to students. The college's commitment to the health and wellness of students, faculty and staff is also demonstrated by the \$7.7 million investment in the new Health Education and Services Center (HESC). The HESC offers free workout space for students, faculty, and staff. This space includes an indoor walking track, two half size basketball courts/multipurpose space for intramurals, group fitness studio, as well as a cardio and resistance equipment workout room. Group fitness offerings include kickboxing, Zumba, boot camp, yoga, and interval blast classes. For individuals looking to take their workout to the next level, personal training sessions are available at minimal cost. There is also a no-cost option to submit training questions online. Along with the group fitness and personal training, students have the opportunity to compete in flag football, dodgeball, basketball, and volleyball intramurals as well as sports tournaments in several additional sports. The HESC also offers the club sports of Golf Team, Dance Team and Shooting Sports Team for students to compete with other community colleges.

Hawkeye's Employee Wellness Committee offers educational health initiatives for any Hawkeye employee. These initiatives include and expand on our Blue Zone efforts and include wellness challenges throughout the year. The most recent wellness challenge offered in 2015 included a 42-day calendar from which employees could choose to complete one of two suggestions for the day. These suggestions included wellness activities for both mind and body by incorporating nutritional, physical exercise, gratitude and mental well-being tasks. The Employee Wellness Committee also works to provide health and fitness assessments throughout the year including cholesterol screening, blood pressure assessments, and waist to hip ratios.

Hawkeye is GREENGUARD Certified ensuring the products used for cleaning have met comprehensive standards for low emissions of volatile organic compounds into indoor air. We dispose of hazardous waste properly with pick up scheduled as needed. The most common wastes generated are oil, batteries, and biohazard. Our integrated pest control management includes the use traps and sounding devices to keep pests away. Garbage receptacles are dumped daily in common areas and twice per week in offices to keep unwanted pests out. We manage containment controls and ventilation by allowing accurate levels of ventilation in buildings to ensure good indoor air quality and by changing filters in accordance with our preventative maintenance program. Our science labs and kitchen are equipped with appropriate hoods to provide adequate ventilation as needed. The preventative maintenance of these units varies from every three months to every six months. Our campus also ensures the SDS books are kept up to date with new chemicals entering the facility and ensuring staff are trained in their use.

Hawkeye's grounds are designed and maintained to encourage students, faculty and staff to enjoy outdoor time and increase physical activity through natural movement. Programs such as Agriculture and Natural Resources, and Sustainable Construction and Design use the college's diverse grounds which include a working farm, pond areas, Native Demonstration Gardens, and the Cedar Valley Arboretum & Botanic Gardens. Students also have the opportunity for outdoor learning experiences through college sponsored trips. Natural Resource students may participate in class trips. These offerings for second year students include wilderness trips to the Bighorn Mountains, Yellowstone National Park, and the Boundary Waters Canoe Area. First year students are offered a canoe trip and campout. Past offerings to Hawkeye students have also included assisting the Iowa Department of Natural Resources in telemetry hunts for the endangered Massasauga Rattlesnake using radio transmitters and receivers for tracking. The college also offers low cost non-program related trips like the ski trip offered last year to Welch Village in Minnesota.

Hawkeye's contracted food service vendor purchases Iowa grown fresh fruits and vegetables from Loffredo Fresh Produce Company. This supplier buys from local growers whose produce meets their food safety and quality standards. Many of their growers are dedicated to environmentally friendly, sustainable agriculture practices. Starting in January 2016, our food service will implement new portion sizes and labeling. The new labeling will provide the nutritional profile of foods prepared in-house making it easier for patrons to select better nutritional choices. Takeout items will be labeled with safe food handling instructions. The cafeteria encourages the consumption of fresh fruit through a punch card which offers one free fruit item after nine purchases. Hawkeye's comprehensive approach to health and wellness includes an on-site student health clinic with supportive health, education, and counseling services to promote personal health necessary for academic retention and completion. These services are available to all registered students and their dependent children. Health insurance is not required for treatment and services are available at no or minimal cost. A licensed Family Nurse Practitioner and RN provides medical attention for sick students with periodic and chronic health problems, and is available to help them develop healthier lifestyles. Licensed professional counselors help students to clarify thoughts and feelings, develop problem-solving skills and coping strategies, and to construct a plan for the future. In addition to the health clinic, preventative dental treatments and minor restorative care are offered on campus at minimal cost. Every fall Student Life hosts the Health Wellness Fair, which includes 50 local area vendors that provide wellness services. Over 300 students attend the event each year. The fair offers opportunities for free health screenings, promotion of eating well through samples of healthy foods and related recipes, and interactive hands on activities viscerally showing the impact of smoking and drinking on the human body. Student Health 101 is an e-magazine available on the Hawkeye website. It provides students with tips on managing student life including fitness and nutrition.

Hawkeye provides access to quality education for many nontraditional students, such as adults who are working and/or raising a family while enrolled. Our student population also includes veterans and military-connected individuals. Cognizant of the issues facing many non-traditional students, our approach to health is holistic and integrates the broader ecology of the student experience that may affect health. We work with students to reduce stress and increase success through assistive social services like emergency financial assistance, extremely low-cost high quality on-site child care for student parents, and connect students to other community services as needed. Hawkeye recognizes the challenges veteran and military-connected students face in transitioning from military life to the college experience. In addition to providing services specific to their needs, we actively educate the Hawkeye community regarding the perspectives of military-connected students and implement policy and practices to best serve our student veterans and their families.

Outreach is also a big part of our campus environmental initiatives. On Earth Day each year, we host events to increase awareness about energy saving and waste reduction efforts on campus. In 2015 we focused on the environmental impact new pre-consumer composting is making on campus and the environment through a cafeteria food “food weigh-in” with students and staff. In 2016 the facilities director will be sharing the impact of our solid waste reduction initiatives with the College and University Recycling Coalition to encourage replication of our environmental impact and waste reduction projects. The facility director will also use the coalition’s quarterly newsletter and internal website to communicate the outcomes of our green initiatives.

Students, faculty and staff have also been involved in engaging the community in wellness efforts. In 2013, Hawkeye Community College’s horticulture program partnered with Iowa State Extension and Blue Zones to help develop a community garden for the growing influx of Burmese refugees in the community. Our Student Life department has offered wellness initiatives that take place outside including the Healthy State 1K walk, Walktober monthly observance and challenge, and 5K runs for the community. In the last three years, Student Life with the campus coalition has hosted two Powder 5K walk/runs on the main campus with proceeds benefiting student scholarships. The most recent community 5K walk/run was the Run to Remember in observance of 9/11. Proceeds from this event were divided between student scholarships and the student emergency fund.

College Pillar 3: Effective Environmental and Sustainability Education

Describe how your college or university provides effective environmental and sustainability education by incorporating STEM, civic skills, and green career pathways.

Provide examples of interdisciplinary learning about the key relationships between dynamic environmental, energy, and human systems. Demonstrate how your institution uses the environment and sustainability to develop STEM content, knowledge, and thinking skills. You should also discuss how your institution develops and applies civic knowledge and skills to environmental and sustainability education.

Hawkeye offers green pathways ranging from certificates, to diplomas, and AAS degrees. The two most distinctive programs that effect environmental and sustainability education are the Agriculture & Natural Resources, and Sustainable Construction and Design.

Natural Resources & Agriculture Program

Natural Resources Management students learn about the physical aspects of managing natural areas. This discipline addresses the need to manage and maintain ecosystem integrity through ethical, economical, and scientific means for future generations. Students develop the necessary skills and certifications for entering careers as natural resources technicians through a combination of classroom instruction, laboratory activities, and an eight-week cooperative work experience. The Natural Resources Management curriculum is hands on and the program hosts many special



events, both on and off campus. The Natural Resource program provides a strong presence by completing studies for the Iowa Department of Natural Resources and helping with invasive species removal at state parks. The Natural Resource program holds an Envirothon for area high schools where students are quizzed on environmental questions in a game show format. Students also assist with the Black Hawk County Conservation Board Electronic Waste Recycling Program.

Agriculture programs teach students cutting edge technology as well as the aspects of biology, botany, nutrition, integrated pest management, and conservation techniques specific to their field of agricultural focus. Our Agriculture program also exposes students to the challenge of feeding the world's continually growing population estimated to reach 9.6 billion by 2050. Hawkeye's 400-acre Farm Lab utilizes new and up-to-date facilities and equipment to provide students with hands on experience in the latest production and management techniques including precision farming practices. Precision farming tracks a wide range of data, including soil information, seed data and weather analytics allowing producers to manage large fields at a micro level in order to boost efficiency and productivity by tailoring water, nutrients, seeds and other inputs to each micro sites' specific needs. This practice allows for significant environmental benefits by using less chemicals and by limiting application to when needed by the crop thereby decreasing the amount lost to run-off and erosion. The Global Agriculture Learning Center focuses on educating and bringing together agriculturists from around the world to promote a global sense through applied learning of production practices of food, fiber, and fuel for our growing world. Students are offered a number of on and off-campus activities including agriculture study abroad opportunities in Germany, Haiti and Brazil. In 2013 Hawkeye Community College was one of only six colleges nationwide that received the National Association of Agricultural Educators Outstanding Postsecondary/Adult Agricultural Education Program Award. Selected from hundreds of agricultural programs, Hawkeye was chosen for its quality of instruction, experiential learning, and collaboration.

Sustainable Construction and Design

The AAS Sustainable Construction and Design program prepares students to design and construct residences that are both sustainable and highly energy efficient. The program follows the National Center for Construction Education and Research (NCCER) training, assessment, certification, and career development standards for residential construction and maintenance craft professionals and aligns with the U.S. Green Building Council's initiatives. The program utilizes a "whole systems approach" to training graduates in the integral relationship between materials, building techniques, mechanical systems, and subcontractors in the production of energy efficient and sustainable homes and prepares students for career fields related to energy analysis, conservation, production, installation, maintenance, and use. Math, and science are incorporated through the design methods and calculations to determine energy needs and structures that prevent heat loss. Students become familiar with green and renewable material use, the proper installation of all components and sub-systems, and the reduction of construction site waste. Hands on projects completed by students include energy audits and retrofits to existing homes, the design of a compressor building using insulated concrete forms to reduce heat transfer through the foundation. Most recently, the sustainable construction class has been constructing an energy efficient tiny house allowing students to gain practical and relevant skills in the design, layout, and construction and finishing of energy efficient homes. The house will be approximately 220 square feet of living space plus a loft. It will include solar panels to offset electricity costs and be heated by a gas fireplace. The coursework for these programs at Hawkeye is built through liberal arts, technical programs and learning experiences threaded together with environment, energy and human systems and supported through projects on and off campus. The Sustainable Construction program bridges human needs for comfort with biologically safe materials that reduce energy costs. Students in the Agriculture, Landscape & Turf, Construction

Equipment Operation and Natural Resources Management have worked together to build skills in green education and sustainability. They have collaborated to remediate two ponds on campus to allow for better storm water control, provide cleaner water into the natural waterways, and develop better habitat for aquatic, amphibious, mammalian, and avian species. These students and programs have also collaborated on designing and rebuilding grass waterways to control erosion and mitigate water damage after rainfall events. Alternative energy systems have been installed at

the campus farm including 2 kW of photovoltaic panels that are grid tied in to fossil fuel energy along with a 2.2 kW sky stream wind turbine. There are also two solar thermal (hot water) systems at the farm.

Hawkeye Community College reviews all programs as a whole system to identify methods for helping students think outside the box and work out solutions utilizing STEM knowledge and critical thinking. Our heavy equipment class uses real life experiences on campus for solution based learning. Students use critical thinking to identify and study drainage issues, then use math to determine the necessary slopes and angles for optimal storm water detention. The Sustainable construction class works on remodel projects at the school to determine the best way to design the building. They use math, science and engineering concepts to make sure the remodeled buildings are more efficient. The liberal arts program includes environmental classes as well that submit green ideas that they identify around the campus and throughout the community to help improve overall sustainability.

The college cooperates with the city, county, state, and federal entities in improving their areas by involving our students in their projects. The Natural Resources Management curriculum is hands on and the program cultivates civic skills in many ways, including the mandatory two day "Leave No Trace" training and certification. It also supports a variety of Iowa Department of Natural Resources initiatives including student assistance with Trumpeter Swan roundup efforts, fish sampling and seining, and timber stand improvement projects. Hawkeye completes lectures for different environmental groups to promote the programs and methods we are using to make a difference. Advisory committees are built around the college's programs to provide input from the "real world" benefiting our students. There are several business members in the community that help us make better environmental decisions in our course work based on their experiences. Pete Olson, Cedar Falls Utility, helps students think outside the box to get rebates for building projects. The sustainable construction class helped build a home with Habitat for Humanity and suggested ideas throughout the process to make the home as sustainable as the organization would allow. They also installed 20 "smart" thermostats in an area community. Agriculture students assisted a University in Haiti to use drip irrigation for their crops, perform soil tests to more accurately use fertilizer sources, and to help identify sources of organic fertilizer. These programs have also helped calculate roof water runoff so it can be captured and stored for use in irrigation.

Our Environmental Science course fosters increased environmental awareness and responsibility of all citizens for the ecological health of the environment. Protection of ecosystem integrity is central to this course's curriculum. Through laboratory exploration students gain experience with analysis of biological systems including physiological analysis and exploration of the environmental issues the community faces. Environmental Science students take field trips to the local water reclamation plant, landfill, Hansen's Dairy, Public Market, and Hartman Reserve Nature Center's Bluff State Preserve. During lab activities students complete water testing; identify and evaluate the environmental management system of campus air emissions, measure soil contamination and use of energy; clean-up a mock oil spill; recycle paper and Styrofoam; present at Hartman Reserve's Earth Day Celebration; and manufacture personal laundry detergent.

Supporting Photos



Pillar 1: The Health Education and Services Center was designed to "Leadership in Energy and Environmental Design" (LEED) specifications. It is heated and cooled with a geothermal system and features floor-to-ceiling windows for energy- efficient and environmentally- friendly design elements.



Pillar 2: The Health Education and Services Center offers free workout space for students, faculty, and staff including indoor walking track, two half size basketball courts/multipurpose space for intramurals, group fitness studio, as well as a cardio and resistance equipment workout room.



Pillar 2: Hawkeye earned the Blue Zones designation in part by instituting healthy choices in the cafeteria and vending machines. Food service purchases Iowa grown fresh fruits and vegetables helping patrons make better nutritional choices.



The sustainable construction class has been constructing an energy efficient tiny house allowing students to gain practical and relevant skills in the design, layout, and construction and finishing of energy efficient homes. The house will offer approximately 220 S.F. of living space plus a loft, and include solar panels to offset electricity costs.



Hawkeye students completed two hands- on sustainable energy projects which included the installation of solar panels on one of the college's barns to power the electricity and lights in the facility.