



2014 ESC Report

Sustainability: It's in our nature.

**University of Washington
Environmental Stewardship & Sustainability**



Husky Stadium's 2012 renovation added many environmentally friendly features while using a sustainable construction plan. The renovated stadium is equipped with many energy and water saving features and is expected to receive LEED certification for design, construction and sustainable operating practices.

The stadium diverted nearly 70% of its waste from landfills during the 2013 season, and the athletic department goal is for 75% diversion in 2014.



Letter from the Chair

I am proud of what we, at the University of Washington, have accomplished thus far with environmental stewardship and sustainability. When I was asked to serve as Chair of the Environmental Stewardship Advisory Committee ten years ago, I knew it was no small feat. I was fortunate then to have collaborated with so many dedicated and passionate students, faculty and staff who served on the Advisory Committee. Students were vital to our efforts, and they will continue to play a crucial role in pushing our boundaries towards becoming a sustainable university.

The committee's vision for a sustainable UW included integrating sustainability into our institutional planning, operations and educational mission. This vision was transformed into reality when we signed our promise to the American College & University Presidents' Climate Commitment for carbon neutrality, which sparked many momentous achievements for the UW, earning us global recognition for our leadership with environmental stewardship and sustainability.

Today, I have the privilege to present our 2014 Report, highlighting a decade of UW activities, progress, and achievements. I want to thank the individuals who served on the Advisory Committee from 2004-2012 and our current Environmental Stewardship Committee.

Furthermore, this effort would not have been possible without the support of our Senior Vice President, V'ella Warren, who initially dedicated resources to make our sustainability vision into an actionable agenda for the UW and to Ruth Johnston for her leadership in guiding our goals. Last and certainly not least, I would like to thank the Provost for co-funding our efforts.

We have a tremendous journey ahead of us and I look forward to being a part of the University's lifelong mission towards a sustainable UW.

Warm regards,
Sandra Archibald
Chair, Environmental Stewardship Committee
Dean, Evans School of Public Affairs



Formed in 2004, the Environmental Stewardship Advisory Committee (ESAC) paved the path for the University's Climate Action Plan and sustainability initiatives. The advisory committee commissioned a greenhouse gas inventory; identified the baseline for electricity, waste and transportation; and conducted assessments for administrative recommendations.

The ESAC principles of collaboration mobilized student, staff and faculty involvement in all phases of the committee's work. The advisory committee developed early branding for UW sustainability including the logo, established the first website and sustainability dashboard, requested funds from the provost for awards and research, and worked with staff to identify actions to reduce carbon and to increase sustainability.

In April 2012, the ESAC was reorganized into the Environmental Stewardship Committee (ESC), a University-wide committee that oversees the University's goals and development in relation to its commitment to sustainability. In collaboration with University units and stakeholders, the Committee identifies long-term goals and standards.

2013–2014 Environmental Stewardship Committee Members

OFFICIAL MEMBERS

Sandra O. Archibald

Dean
Daniel J. Evans School of
Public Affairs

Bruce Balick

Professor
Astronomy

Rebecca Barnes

University Architect
Office of Planning &
Budgeting

Michael Carette

Senior Planner
Office of Planning &
Budgeting

Richard Chapman

Associate Vice President
Capital Projects Office

Howard Chizeck

Professor
Electrical Engineering

Howard Frumkin

Dean
School of Public Health

Lisa Graumlich

Dean
College of the Environment

Ruth Johnston

Associate Vice President for
Strategy Management
Finance & Facilities

Charles Kennedy

Associate Vice President
Facilities Services

Rob Pena

Associate Professor
Architecture

Gary Quarforth

Associate Vice Provost
Office of Planning and
Budgeting

John Schaufelberger

Professor/Chair
Construction Management

Pamela Stewart

Executive Director, Planning
& Facilities
UW Information Technology

Jude Van Buren

Director
Environmental Health and
Safety

Aram Ambartsumyan

Junior
Pre-Sciences
Residential Community
Student Association

Natalie Gray

Sophomore
Pre-Engineering
Campus Sustainability Fund

Elizabeth Lindner

Graduate student
Evans School
Graduate and Professional
Student Senate

Shivana Changela

Interim Representative
Junior
ASUW

EX OFFICIO MEMBERS

Anthony Guerrero

Assistant Vice Chancellor
Facilities Services, UW Bothell

Pam Schreiber

Director
Housing & Food Services

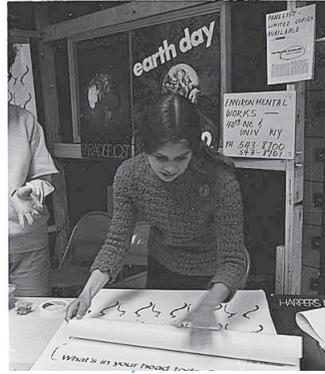
Milt Tremblay

Director
Facilities and Campus
Services, UW Tacoma

Lia Wetzstein

Instructional Supervisor
Environmental Science &
Studies, UW Tacoma

Over a Century of Sustainability



1896

Two people are hired to manage a farm and cattle for students living in new dorms built after UW moves to the current campus

1947

Division of Health Services charged with providing on-campus environmental health and safety services

Department of Meteorology established, later became the Department of Atmospheric Sciences

1970

UW students celebrate 1st Earth Day

1977

Joint Institute for the Study of the Atmosphere and Ocean formed

1995

Task Force on Environmental Education established

2004

UW Environmental Stewardship Policy Statement written

Environmental Stewardship Advisory Committee (ESAC) established

2005

Greenhouse Gas Inventory completed for UW

Campus Day started by President Edmond Meany to beautify campus and demonstrate UW's commitment to public service

UW and the City of Seattle establish the Washington Park Arboretum

1935

Environmental Health and Safety department created

1966



Power plant converted from coal to natural gas

1988

Institute for Environmental Studies established

1973

Program on the Environment created

2000

President Mark Emmert signs the American College & University Presidents' Climate Commitment (ACUPCC) as a charter member

2007

2008-2014

2008

Environmental Stewardship & Sustainability (ESS) Office created by Senior Vice President V'ella Warren

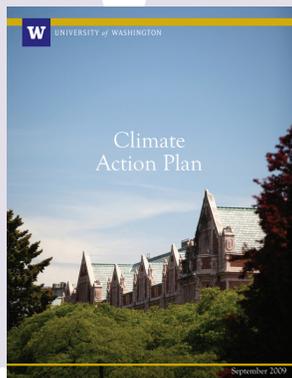
2009

UW Climate Action Plan submitted to ACUPCC

College of the Environment established

Husky Green Fund established for philanthropic donations

Husky Green Awards established to recognize students, faculty & staff



2010

Student-initiated Campus Sustainability Fund (CSF) launched

1st UW Sustainability Summit organized by ESS & CSF

UW hosted the Pacific Northwest Regional Sustainability Roundtable

2011

UW Sustainability Dashboard launched

Green Office Certification program started

2012

ESAC restructured into the Environmental Stewardship Committee (ESC)

President Michael Young signs Executive Order No. 13 for Environmental Stewardship & Sustainability

2013

Green Laboratory Certification program launched

Online UW sustainability map launched

Green Seed Fund for research projects launched

"Climate of Change" video series produced

The **Environmental Stewardship & Sustainability (ESS)** office, formed in 2008, coordinates and promotes sustainability information and programs by engaging, educating and involving students, faculty, and staff in activities across the university. ESS provides support to the **Environmental Stewardship Committee (ESC)**, the **Climate Action Plan (CAP)**, and many other campus projects including paper reduction; green certifications for offices, labs and housing; and sustainability in the curriculum. The office oversees two grant funds to reduce UW's environmental impact: the **Green Seed Fund** for research projects and the student-run **Campus Sustainability Fund**. ESS gathers and reports data for the **UW Sustainability Dashboard** and compiles campus information for rating groups such as The Princeton Review, The Sierra Club, and AASHE's Sustainability, Tracking, Assessment and Rating System (STARS). Each year ESS organizes the **SustainableUW Festival** in the fall and campus Earth Day events in the spring.

UW Seattle Student Sustainability



over 50%
of students living on campus
live in LEED certified housing
including 4 LEED certified
residence halls

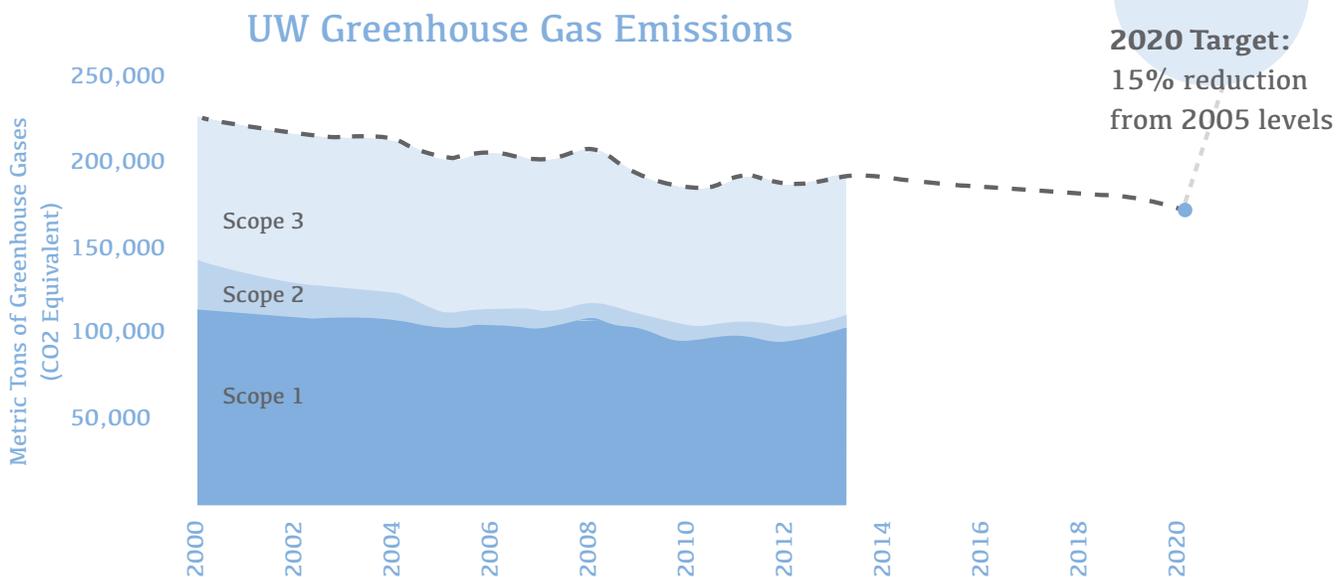


over 40
sustainability-focused
student groups are
active on campus



Climate Action Plan (CAP) Policy Committee

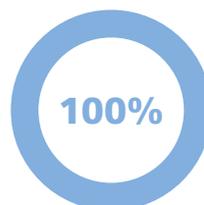
A cross-departmental team, guided by a respected climate scientist, reviewed 80+ Climate Action Plan strategies using evaluation tools that included a Marginal Abatement Cost Curve (MACC). Using the MACC enabled the committee to identify CAP strategies with the lowest cost (financial and political) and highest carbon reduction. These strategies were presented to the Environmental Stewardship Committee for review and to UW senior leadership for approval.



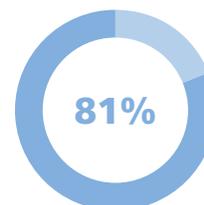
Sustainability in the Curriculum

The committee reviewed the results from the Phase 1 committee appointed by the provost and agreed to work in the 2014-15 academic year to strengthen the planned 200-level sustainability course. The group also identified faculty champions to build faculty community and courses around sustainability.

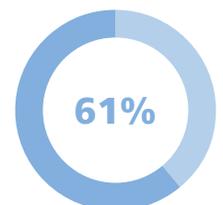
Other UW Sustainability Highlights



electricity sources are carbon neutral



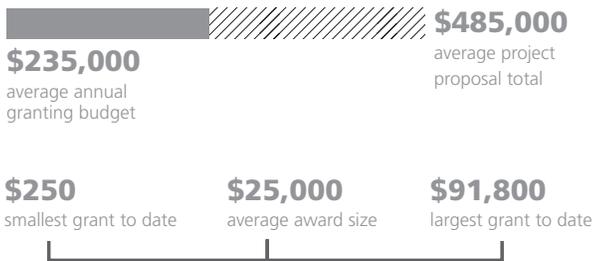
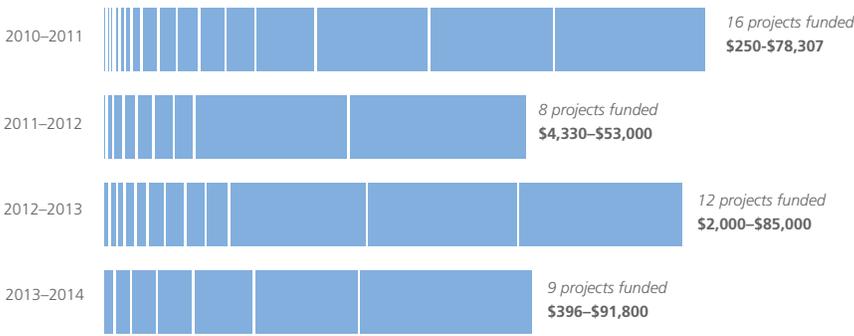
commute using alternative modes of transportation



waste diverted from landfill in 2013

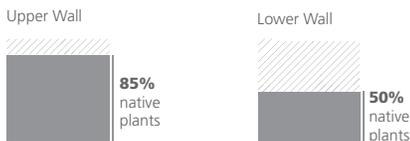
Campus Sustainability Fund

The Campus Sustainability Fund (CSF) grew out of a vision of the students to have a substantive engagement with the University of Washington's sustainability efforts. The goal of the CSF is to foster positive change by providing the UW community an opportunity to develop, create and implement their ideas. The CSF has awarded more than \$1 million since being established in 2010, and awarded over \$235,000 to student projects in the 2013-2014 academic year.



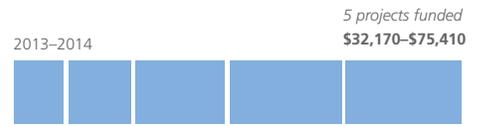
Biodiversity Green Wall

Students transformed a blank concrete wall into a showcase of improved rainwater harvesting method.



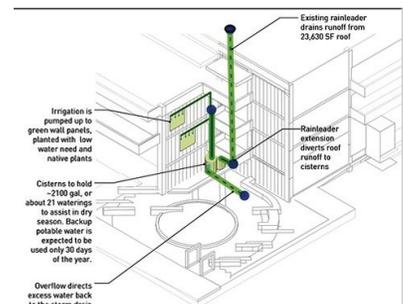
Green Seed Fund

The Green Seed Fund was created in 2013 to engage faculty, students and staff in opportunities that advance sustainable research while contributing to campus sustainability goals. Successful proposals use the campus as a living, learning laboratory and help the UW find solutions to the most pressing environmental issues.



Measured Benefits

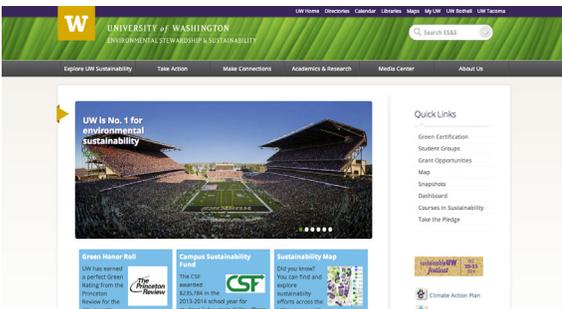
This project will analyze the Biodiversity Green Wall to measure exterior and interior temperature, its support of bird and insect use, storm-water management, water conservation potential, and its contribution to plant diversity in an urban environment.



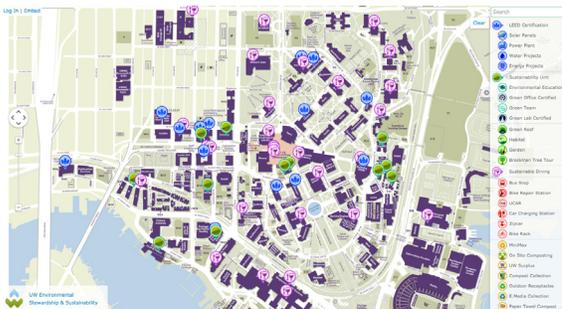
ESS Online

The ESS office launched an updated, redesigned website this year at green.uw.edu. The new site features a cleaner look and improved navigation to help users easily find what they're looking for, as well as a newly created interactive UW Sustainability Map letting users know where to find sustainability features and projects around campus. The office also expanded its social media reach, joining Instagram, Pinterest, Google+ and LinkedIn to add to our already established Facebook, YouTube and Twitter pages. Join the conversation online with hashtag #sustainableUW.

What You Can Find at green.uw.edu



Homepage: Highlights current sustainability efforts on campus/awards received



Sustainability Map: Displays locations of different physical aspects of sustainability around campus

Sustainability Dashboard The University of Washington Sustainability Dashboard displays information on sustainability metrics and conservation targets in order to track the progress toward achievement of the goals outlined in the UW's Climate Action Plan.



Green Certification and Green Teams

The ESS office created certification programs to recognize sustainable practices by offices and laboratories on campus, offer advice on areas of improvement and encourage sustainability competition and collaboration in offices, labs, buildings, residence halls and Greek housing across UW. The Green Labs program marked its first year in the summer of 2014, while the Green Office program has promoted sustainability since 2011.

In the first year of the Green Labs program, nearly 40 labs were certified with the highest score achieved by the DeLuca Lab. Other Gold-level labs have already surpassed that standard in the very early months of the program's second year.

The Green Office program has grown to more than 30 certified offices. The top offices recognized for the 2013-2014 year were:

Greenest Office:

College of the Environment Dean's Office

Most Improved Green Office:

Southwest Maintenance Zone, Facilities Services

College of the Environment Greenest Office:

School of Aquatic and Fishery Sciences



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13
green teams



over 30
certified green
offices



over 40
certified
green labs

Climate of Change

Climate of Change is our premier video series showcasing the University of Washington's sustainability efforts in the areas of research, teaching, co-curricular programs, and campus operations. This four-part series highlights the UW's role in shaping how we teach students, develop research, and manage our resources for a sustainable society.

The *Climate of Change* video project was made possible through a university-wide collaboration of students, faculty and staff at our Seattle, Tacoma and Bothell campuses.

The entire series airs on UWTV, Channel 27, or is available on YouTube.

Learn more: green.uw.edu/climate-of-change

1: The University and the World

From groundbreaking research to innovative solutions created by students, discover how the UW has become a catalyst for environmental change, including:

UW Commitment to Sustainability
Soil as a Resource
The Bullitt Center
Environmental Innovation Challenge
Center for Urban Waters

2: Modeling Sustainability

Uncover how, through its students, the University has been a catalyst for developing sustainable strategies and promoting environmental change for more than a century, including:

Wetlands Restoration
College of the Environment
Pack Forest as a Classroom
UW Farm
Campus Sustainability Fund



3: Living the Sustainability Experience

Find out about UW's history of environmental stewardship programs, disciplines, Climate Action Plan and campus operations that promotes a greener planet, including:

The Garbology Project
Commitment to Recycling
Green Products Inside and Out
Climate Action Plan
Smart Grid Project

4: Commitment to the Future

See how innovative research and development, coupled with student engagement, exemplifies the UW's commitment to sustainability now and for the future, including:

Preparing Students for the World
Deep Sea Impacts
Renewable Resources in Sky and Sea
Sustainable Construction
Light and Heat

Events

Sustainability Festival (Summit):

The Sustainability Summit celebrates the UW's leadership and accomplishments in environmental stewardship and sustainability. It provides the opportunity for students, faculty, and staff to find ways to get involved with sustainability on campus, learn about sustainability initiatives, and how our community partners play a role in helping UW remain a leader in sustainability. In 2014, the Summit is expanding to a week-long festival.



Earth Day: The UW Earth Day Celebration brings students, faculty, staff, and community members together to celebrate environmental stewardship and sustainability efforts across campus. The 2014 celebration included keynote speeches from Lisa Graumlich, Dean of the College of the Environment, and Peter Rabinowitz, Associate Professor, Environmental and Occupational Health Sciences.

Washington State Higher Ed Sustainability Conference Planning Committee

(WAHESC): ESS was part of the founding advisory committee in conjunction with Western Washington University to establish the first WAHESC event for over 500 faculty, staff and student attendees.



Conferences and Presentations 2013-2014

Smart & Sustainable Campuses Conference

Hosted by the University of Maryland, Baltimore, MD

Presenter: Claudia Frere

Audience: National sustainability administrators, managers and directors

GoGreen Conference *Seattle, WA*

Presenter: Claudia Frere

Audience: Professionals from regional government, business and nonprofit organizations.

Washington State Higher Ed Sustainability Conference

Presenter: Aubrey Batchelor and Jennifer Perkins, "Green Certifications Tailored to Your College"

Audience: Faculty, staff and students from Washington state higher education institutions.

Environmental & Occupational Health Sciences Continuing Education Program *Seattle, WA*

Presenter: Aubrey Batchelor, "Catalyzing and Recognizing Sustainable Science at UW"

Audience: Environmental Health & Safety professionals responsible for laboratory safety.

American Chemical Society *San Francisco, CA*

Presenter: Aubrey Batchelor, "Defining and Incentivizing Best Practices for Sustainable Laboratories"

Audience: chemical scientists, engineers and other professionals

NACUBO *Seattle, WA*

Presenters: Ruth Johnston and Graham Golbuff

Audience: National college business officers and administrators. Included campus tour by ESS office students and others



Husky Green Awards

Thirty-one awards were presented to students, staff and faculty from the Seattle and Bothell campuses since 2008. This University-wide award recognizes individuals and groups who have demonstrated leadership, initiative and dedication to environmental stewardship and sustainability. Three legacy awards were presented in 2013 and 2014 to the UPASS Advisory Committee, Bruce Balick (Astronomy Professor) and Sandy Archibald (Dean of the Evans School of Public Affairs).



Awards Received by UW

2014 International Sustainability Campus Network Excellence in Integration (only North American school to earn an ISCN award since 2012)

Ruth Johnston, Associate Vice President and Associate Vice Provost, received the NACUBO Professional Development Award

Achieved STARS Gold rating in 2012 (valid through 2015)

Named to The Princeton Review's 2014 Green Honor Roll with a perfect 99 Green Rating for the 4th straight year

Top 10% rating worldwide by Universitas Indonesia's Greenmetric Ranking

Seattle Business Magazine's Washington Green 50 Silver Award

Cascade Bike Club BizCycle Silver

King County Commuter Challenge Diamond Award for Outstanding Leadership

UW and Harborview Medical Centers each earned a Top 25 Environmental Excellence Award from Practice GreenHealth

Listed in Sierra Club's "Cool School" rankings for the seventh year

Media Mentions

UW garners highest score possible, named again to Green Honor Roll

August 14, 2013 UW Today

Campus sustainability, climate change focus of Sustainability Summit

October 17, 2013 UW Today

Environmental sciences lab ups bar for green labs at UW

January 28, 2014 UW Today

Green Seed Fund brings sustainable ideas to life

February 26, 2014 The Daily

UW labs strive for sustainability with new program

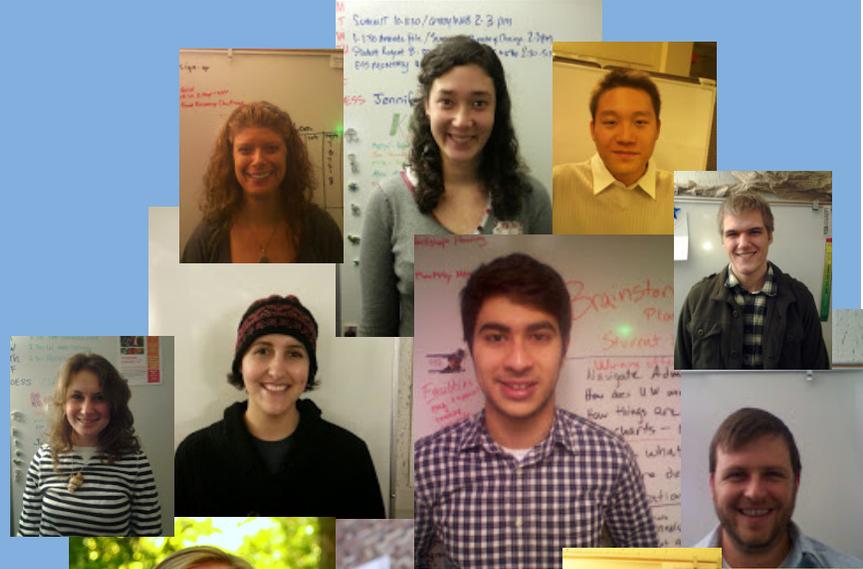
March 12, 2014 The Daily

International Sustainability Campus Network Excellence Award

June 6, 2014 UW Today

Students and Interns:

ESS successfully engaged students with hands-on academic and paid internship opportunities. In this past academic year, the office supervised over 1,550 undergraduate internship hours and managed paid student interns to work with staff on launching and coordinating outreach and educational programs such as the Green Lab and Office Certification Programs, Sustainability Map, Climate Action Plan awareness campaigns, Green Seed Fund, EcoReps Program, and key university-wide annual sustainability events. Students have played a vital role in campus sustainability efforts and are poised to become future leaders who will solve the world's environmental, social, and economic grand challenges.



ESS Leadership

Ruth Johnston

Associate Vice President and
Associate Vice Provost

Claudia Frere

Director

Sean Schmidt

Assistant Director of
Communications & Programs

Elise Glassman

Project Manager

Aubrey Batchelor

Sustainability Programs Supervisor

Daimon Eklund

Sustainability Communications Coordinator

Mike Ferguson

Project Coordinator

Katya Lobanova

Administrative Coordinator

Dan Druliner

F2 Web Manager

green.uw.edu/office



Graham Golbuff
CSF Coordinator

2014 Campus Sustainability Fund Leadership

An Huynh
CSF Outreach Coordinator





One of the most exciting ongoing projects at UW is the re-establishment of the UW Farm. Farming first arrived at UW in 1896 when staff were hired to manage a small farm to support students living in dorms. In 2006, students, faculty, and staff established the UW Farm at the Botany Greenhouse and in 2011 the farm expanded to fields located at the Center for Urban Horticulture. In 2013 the farm grew even further to include large beds in the new Mercer Court Apartments.

In 2014, the UW Farm started a weekly CSA program as well as a produce stand on the Burke Gilman Trail making farming a vital part of UW once again.

Today, the UW Farm provides the opportunity for students to practice and study sustainable urban agriculture, from growing produce to beekeeping.



Address: Gerberding B40 Box 351248, Seattle WA 98195

Email: oess@uw.edu

Website: green.uw.edu