

CAMPUS CLIMATE LAB



Proposal Development Session for Spring 2026

Reach us at cclab@bu.edu

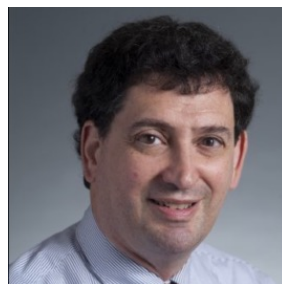


bu.edu/igs/research/campus-climate-lab/

CCL Management Team



Serrie Anderson
Director of Finance &
Admin, IGS
cclab@bu.edu



Michael Gevelber
CCL Director
gevelber@bu.edu



Lisa Tornatore
BU Sustainability Director

Special acknowledgements to our **Campus Climate Lab Review Committee**, partners at the **Institute for Global Sustainability (IGS)**, **Office of Research**, and all CCL participants.

Goals of Campus Climate Lab



Our Partners



BU Sustainability

Office of Research

1

Help guide BU to meet its Climate Action Plan goals.

2

Advance sustainability research & practice.

3

Catalyze our community, foster sustainability leaders, and demonstrate BU's commitment.

4

Use the BU campuses as living laboratories.

Provides \$10K/term for ugrad & grad researchers.



Climate Action Plan



1°

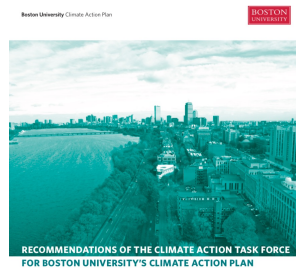
Prepare BU for Climate Change

2°

BU Net Zero Direct Emissions by 2040

3°

Act on BU's Indirect Emissions



Operations Partners



Operations partners provide knowledge and information for projects, access to data, and guidance for projects.

CCL Operations Partners

- Campus Planning & Operations
 - Facilities Management & Operations
 - Engineering & Building Systems
 - Custodial Services
 - Planning, Design & Construction
 - Grounds
 - Real Estate
- Environmental Health & Safety
- Residence Life
- Safety, Security, and Preparedness
- Technology Development (*Office of Research*)
- Transportation Services
- Zero Waste (*BU Sustainability*)

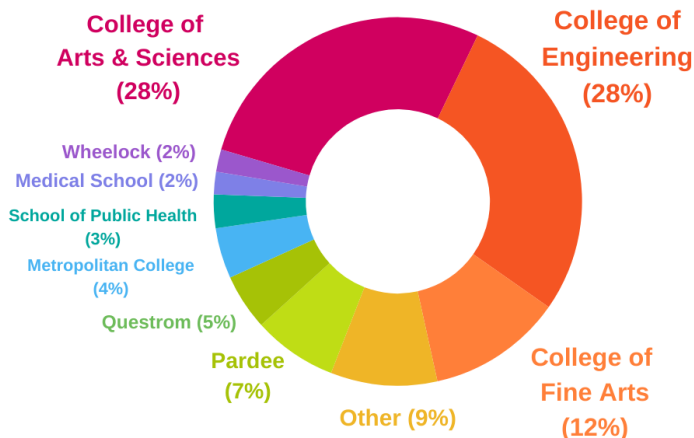


Infrastructural Decisions • Resource Management • Mentorship

CCL Accomplishments (*since 2020*)



Percentage of participants from each BU college



230

Participants



49

Projects



100

Undergraduate Students

42

Graduate Students

8

Doctoral Students

59

Faculty

21

Operations Partners

\$451K in projects funded

Research Area Examples

(see detailed listing of past projects on web site)



Buildings & Operations



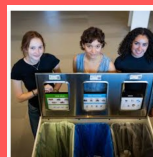
Influence of Landscape Management Practices on Urban Greenhouse Gas Budgets

Climate & Health



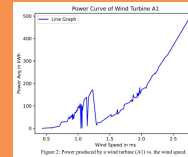
Quantifying Microplastic Emissions and Investigating Filtration Methods

Reducing Waste



Trash Classification for Efficient Recycling

Curriculum Development



BU Wind Data Analysis and Curriculum Development

Advocacy & Activism

Literature Review Data				
University	Academic Programs & Courses	Student Organizations	Faculty and Staff	Cultural Resources and Resources
Boston College	4 related courses	70 students (Environmental Studies, or related fields)	4 faculty with expertise	International Center (2015)
Boston University	4 related courses	5 in total of students (related to environmental studies)	1 faculty with expertise	BU's Advocacy at BU
Brown University	Cultural Studies, American Studies, and Environmental Studies	20 students (American Studies, or related fields)	10 faculty with expertise	BU's Advocacy at BU
	15 courses			

Indigenous Curricular and Cultural Exchange Gaps at BU

Janetos Climate Action Prize



Anthony Janetos (1954 – 2019)

Renowned climate change expert & leader



Professor Anthony Janetos was instrumental to the development of BU's Climate Action Plan (CAP) and chaired the CAP Task Force in 2017.

He devoted his career to high-impact, global-change science and policy. He earned international recognition for his scholarship and held executive leadership positions at numerous institutions.

Janetos Prize Winners



2025

**Continuous Indoor
Air Quality
Assessment**



2024

**Bluebike Mounted
Air Pollution
Monitors**



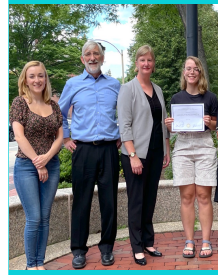
2023

**...Sustainable
Laboratory
Practices...**



2022

**Quantifying Scope 3
Emissions...**



2021

**...Strategies to
Decarbonize BU...**



Project Examples



Buildings & Operations	- Study demand/grid implications of all electric building for heating system and potential solution of thermal/electric storage - Water consumption & mitigation efforts - BU indoor air quality sensor & portal - Developing heating electrification strategies to decarbonize Boston University's Charles River campus - Trash Classification for Efficient Recycling (<i>also in "Reducing Waste" category</i>)	
Advocacy & Activism	- Student-generated solution for environmental justice at Boston University - Indigenous Curricular and Cultural Exchange Gaps at BU - Warren rooftop mini-garden	
Climate & Health	- Bicycle-mounted air pollution monitors - Boston University Medical Center: Climate change impacts & mitigation strategies - Evaluating the efficacy of extreme weather and climate preparedness across Boston University campuses	
Curriculum Development	- BU wind data analysis and curriculum development - Bringing Miyawaki Method to BU	

Application Process



Elements of a Great Proposal

CCL Proposal Overview



- Supports undergraduate and graduate student research.
- Upto \$10,000 per semester.
- Undergrad rate \$15/hr, Graduate rate, \$20/hr & for materials and supplies
- Must have a Faculty or Staff Mentor (could be a grad student)
- Identify Operations Partner

Proposal Development



Captures the focus and scope of project.

1^o

Project
Title



Project Summary, what challenge will you tackle
& why significant. What research questions?

2^o

Abstract



How will the project advance BU's contribution to climate
and sustainability issues?

3^o

Project
Justification

Proposal Development



Outline your activities, outputs, and timeline.

*Specify which semesters the project will be conducted (1-3
maximum per funding cycle).*

4^o

Project Plan



Detail the intended impact of this project:

- Presentation
- Publication
- Policy recommendation
- Meeting with BU staff
- New signage

5^o

Project Impact



Describe data requirements, and which BU office will be
engaged if relevant.

6^o

Data Needs



- Full Name
- Title
- Email
- Department
- Role

As applicable.

7^o

Project Team

Operations Partners



An itemized budget clearly laying out the costs per item,
description and cited sources for any purchasing.

8^o

Budget

Project Ideation & Team Building



CCL Ideas Board

- Pitch ideas & develop ideas • Connect with active teams.
- Recruit team members

Ideas Board - Campus Climate Lab
 File Edit View Insert Format Data Tools Extensions Help

	A	B	C	D	E	F
	Project Name	Climate Action Topic	Project Status	Project Description	Actively Recruiting for	Brainstorming Document + Contacts
1	Improved Lab Inventory Management Practices	Reducing Waste	Proposal Development Stage	This project aims to analyze current methods for managing BU's chemical inventories and storage, develop a streamlined system connecting and improving inventory management for labs across BU's campus, ultimately, minimizing excess waste, and improving resource utilization and inter-departmental communication.	1 Undergraduate student 1-2 Graduate students	Improved Lab Inventory Manage...
5	Electricity Demand Response	Buildings and Operations	Proposal Development Stage	This project aims to avoid or shift electricity use during peak demand on BU campuses and possibly off-campus facilities like the Green High Performance Computing Center, using technology and community engagement. The first phase of this project would involve analysis of "low-hanging fruit" and large potential impact assets. These may include large buildings such as the Center for Computing and Data Science, and collective aggregations of small assets, for example multiple small buildings of the same type that are amenable to aggregation and provide opportunity for community engagement.	1-6 undergraduate students, possibly but not necessarily 1 graduate student	Draft: Activate BU Demand Response
6	Quantifying Microplastic Emissions and Investigating Filtration Methods	Climate and Health	Active	The goal of this project is to address BU's microplastic emissions at their source: the washing machine. Previously, this project sampled laundry wastewater to determine the university's yearly microplastic emissions, and investigated different methods for filtering microplastics from laundry effluent. Mesh bag filters proved to be effective at removing microplastics at the laundry machine's outflow, but require frequent maintenance. As a result, this project's next actions center around designing and prototyping filters which maintain high microplastic capture rates, while also decreasing upkeep.	1-3 Undergraduate students, preferably with engineering backgrounds. Contact ingibon@bu.edu	Microplastic Mitigation Project P...
7						
8						

For feedback on an idea or proposal draft, please email cclab@bu.edu.



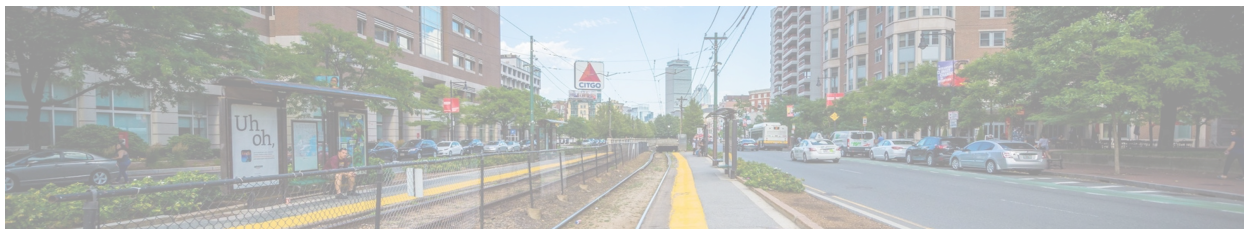
Q & A Open Discussion



Questions

Ideas

Collaborations



Buildings & Operations



Reducing Waste



Climate & Health



Curriculum Development



Advocacy & Activism

Thank you!



Submit your 2-4 page pdf proposal to cclab@bu.edu:

Monday, November 24rd 19 (3:00 pm ET)

Join us for future CCL sessions:

Join the IGS Mailing list for future dates →

Reach us at cclab@bu.edu



bu.edu/igs/research/campus-climate-lab/

