

CAMPUS CLIMATE LAB

BOSTON
UNIVERSITY



Proposal Development Session for Spring 2026



Reach us at cclab@bu.edu

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

CCL Management Team



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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



Institute for Global Sustainability

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



1º

Prepare BU for Climate Change

2º

BU Net Zero Direct Emissions by 2040

3º

Act on BU's Indirect Emissions

Boston University Climate Action Plan



Operations Partners



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

CCL Operations Partners

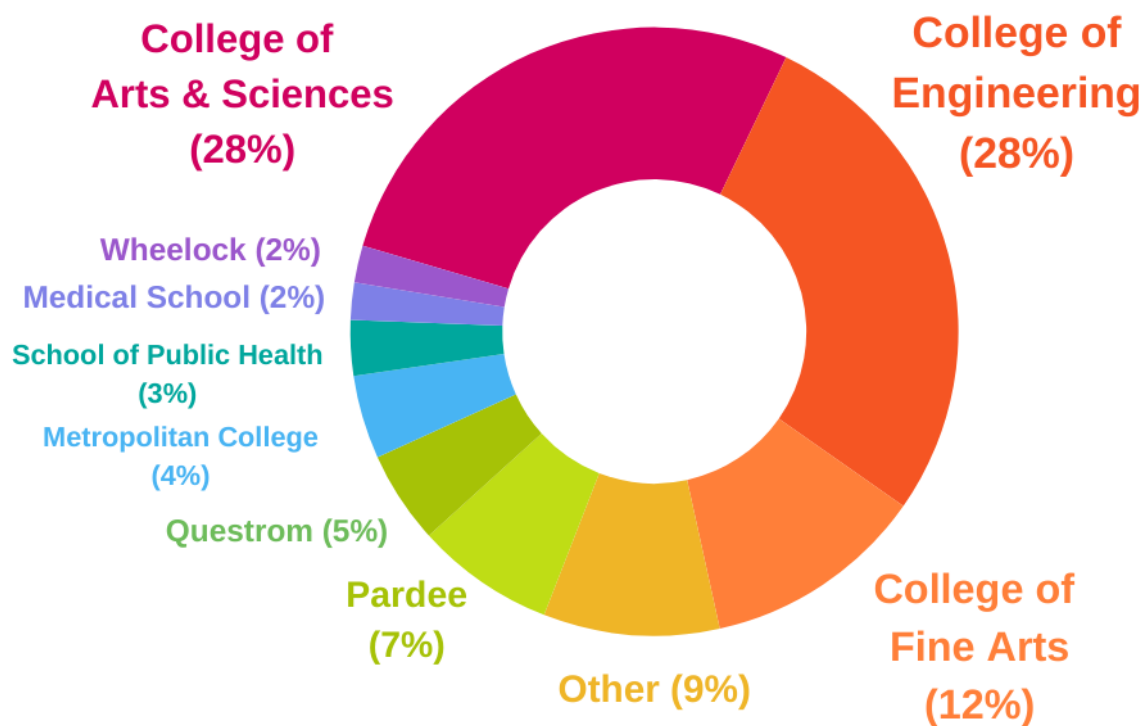
- Campus Planning & Operations
 - Facilities Management & Operations
 - Engineering & Building Systems
 - Custodial Services
 - Planning, Design & Construction
 - Grounds
 - Environmental Health & Safety
 - Residence Life
 - Safety, Security, and Preparedness
 - Technology Development (*Office of Research*)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

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)

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Buildings & Operations



*Influence of
Landscape
Management Practices
on Urban Greenhouse
Gas Budgets*

Climate & Health



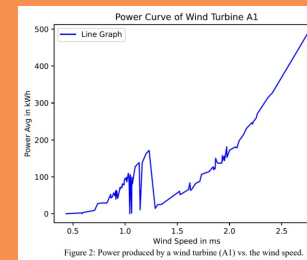
*Quantifying
Microplastic
Emissions and
Investigating Filtration
Methods*

Reducing Waste



*Trash Classification
for Efficient Recycling*

Curriculum Development



*BU Wind Data Analysis
and Curriculum
Development*

Advocacy & Activism

Literature Review Data

University	Academic Programs & Course Offerings	Student Demographics	Faculty and Staff	Cultural Spaces and Resources
Boston College	6 related courses	76 students American Indian or Alaska Native (0.7%)	4 faculty with expertise 7 American Indian or Alaskan Native	Intercultural Center (BAIC) Student Organizations
Boston University	4 related courses	0.0415% of students American Indian or Alaska Native	Some faculty have interests that align with indigenous studies	NALSA Attempts at broad-scale outreach
Brown University	Critical Native American and Indigenous Studies Concentration (NAIS) 15 courses	50 students American Indian or Alaska Native (0.485%)	Staff and faculty involved in NAIS	Student organizations, such as Natives@Brown

*Indigenous Curricular
and Cultural Exchange
Gaps at BU*

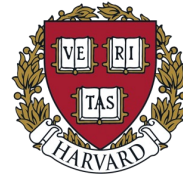
Janetos Climate Action Prize

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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 (*also in "Reducing Waste" category*)



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

5^o

Project Impact



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

6^o

Data Needs



- Full Name
- Department
- Title
- Role
- Email

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					
Menus					
E12					
	A	B	C	D	E
1	Project Name	Climate Action Topic	Project Status	Project Description	Actively Recruiting for
3	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
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
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 lrgibbon@bu.edu
7	For feedback on an idea or proposal draft, please email cclab@bu.edu .				
8					



Q & A Open Discussion

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Questions

Ideas

Collaborations



Buildings &
Operations



Reducing
Waste



Climate &
Health



Curriculum
Development



Advocacy &
Activism

Thank you!

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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



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