



Call for proposals for the Green Campus LIVING LAB

The BGU Green Campus initiative aim to advance environmental awareness, efficient use of natural resources, and minimizing the institution's environmental footprint.

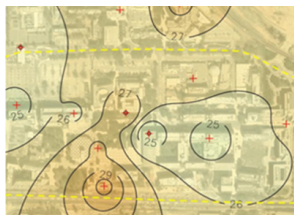
What is the LIVING LAB?

The LIVING LAB project seeks to utilize the knowledge and expertise generated by the university research groups to reduce the overall environmental impact of our university.

We invite faculty members, post-docs, and graduate students to submit proposals, ideas for tools, prototypes, models, technologies, or other experimental initiatives you are currently working on, and test their feasibility in the real world using the campus's grounds. We offer a practical research pathway that enables you to advance science outside the lab's walls in a safe, supportive environment and contribute to making the world more sustainable.

The LIVING LAB is already active! Campus Marcus already serves a research ground for numerous projects. For example, the followings are two such ongoing projects:

24/7 air quality and climate monitoring



25 multi-purpose sensors were especially developed and installed around Campus Marcus. The innovative sensors simultaneously measure air temperature, humidity, barometric pressure, and tiny practical matter pollutant (PM 10, PM 2.5) inside and outside the university's building and provide a better understanding of our thermal comfort and exposure to various pollutants.

**The project supports research conducted at ASL & EEA labs in the Department for Environmental, Geoinformatics, and Urban Planning Science.*

Potential renewable energy production



Can Ben Gurion University reach zero GHG emissions from energy consumption by 2030? How? The study assessed the potential for renewable energy production and energy savings in various scenarios and estimated the potential to reduce GHG emissions and energy efficiency. An optimization model offered a set of recommended steps for implementation.

**The project supports research conducted at the Biomechanics Robotics and Sustainability lab in the Department for Industrial Engineering and Management.*

What kind of support the LIVING LAB offer?

The Green Campus initiative will assist in implementing selected research on the campus's grounds. In addition, we offer financial support of up to 50,000 NIS (subject to project needs) for projects realized in one or more of the university's campuses.

What kind of research is eligible for the LIVING LAB project?

The LIVING LAB is interested in supporting research from one or a combination of these topics. The list is not exclusive to these topics only.

Climate change mitigation and adaptation to changing reality	<ul style="list-style-type: none">● Energy and water efficiency● Adaptation to climate change● Water and waste treatment, technologies and solutions● Renewable energy and energy preservation technologies● Smart cities● Minimizing institutional Carbon Footprint● Climate change robotics● Advanced bio/nanotechnologies● Biodiversity in urban or Desert environment● Preserving or restoring ecological system services● Feedbacks and interaction between the human and natural environment● AI for climate change mitigation or adaption
Transforming human activity patterns and advanced solutions	<ul style="list-style-type: none">● Smart & sustainable transportation● New markets, full-cycle, and service or sharing economies● Promoting sustainability in organizations● Tourism & urban-sustainable experiences● Feedback and interaction between the human and natural environment● Data and knowledge management in sustainable businesses● Environmental awareness and education programs● Environmental impact of cloud services● AI research of pollution, human or ecological behavior patterns● Implementing tools, practices and solutions for SDG● Reduction and treatment of GHG and pollutants

Who can participate?

- Faculty members, post-docs, and graduate students who have an idea for a pilot, experimental study, social, business, or technological initiative associated with environmental challenges or sustainability.
- The call for proposals is open to all disciplines and the broad spectrum of sciences.
- Relevant research proposals that can be completed or achieve considerable results within a year. The selected proposals will be requested to present to the judging community.

How to submit?

Please fill in the computed submission form here: [English](#) | [Hebrew](#)

The final deadline date for proposal submissions is 30.6.2023

For further details or questions, please refer to the Green Campus initiative by E-mail: cgreen@bgu.ac.il