

PROJECT FACTSHEET

Project Name	Air Quality Monitoring
Donor Name	LAU Self-funded
Manager	Gilbert and Rose-Marie Chagoury School of Medicine
Start Date	September 2026
End Date	September 2028

Project Overview

This project aims to evaluate the relationships between key air pollutants, measured using calibrated low-cost sensor clusters across the Greater Beirut Area (GBA), and multiple health outcomes to inform environmental health policy and targeted public health interventions.

Objectives

- Assess the short/long-term associations between exposure to key air pollutants and respiratory, cardiovascular, and other health outcomes in adults.
- Conduct spirometry testing to capture objective lung function and exposure-response relationships
- Inform policy and guide interventions

Challenges

- Onset of another bout of warfare in March 2026
- Acquisition and deployment of sensors
- Enrollment of people into the study
- Operating and maintaining the reference air quality station

Milestones

Milestone	Time Needed
<ul style="list-style-type: none"> • Purchase of sensors • Rehabilitating of Reference Air Quality Station • Development of associated surveys 	On-going
<ul style="list-style-type: none"> • Installation of air quality sensors • Administration of surveys • Securing engagement of Ministry of Environment 	4 Months
<ul style="list-style-type: none"> • Collecting data from sensors 	12 -24 Months
<ul style="list-style-type: none"> • Producing policy briefs and journal articles 	6 Months

Achieved Results

- *The project has not yet started*

Lessons Learned

- *The project has not yet started*

Consortium

Name	Contribution
Gilbert and Rose-Marie Chagoury School of Medicine	Leader
School of Engineering	Partner
Office for Sustainability	Partner

Budget

Project Budget	350,000 USD
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