

January 30, 2026

Bioresilience Fund 2025 Annual Report

About the Bioresilience Fund

The Blueprint Biosecurity Bioresilience Fund supports targeted, high-impact research that strengthens society's ability to prevent, detect, and respond to biological threats. The Fund focuses on advancing evidence-based solutions in priority areas where improved science and technology can enhance pandemic preparedness and response.

Specifically, the Fund invests in research aligned with Blueprint's core areas of focus, including personal protective equipment (PPE), far-UVC, and additional built environment transmission suppression (BETS) technologies. By funding research in these areas, the Fund helps address critical evidence gaps and translate promising ideas into deployable tools that improve biosecurity and public health resilience.

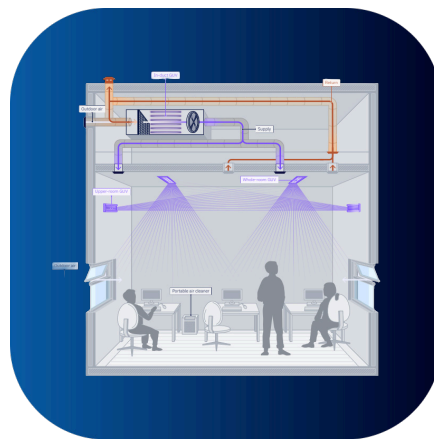
For information on how to support Blueprint Biosecurity's work, please contact donations@blueprintbiosecurity.org or donate online through the [Blueprint Biosecurity PayPal Giving Fund](#).

2025 YTD: \$10.1M dedicated; \$4.3M awarded to priority research projects

Current Priority Research Areas



Personal Protective Equipment (PPE)



Far-UVC



Additional Built Environment Transmission Suppression Technologies (e.g., Glycols)

Overview of 2025 Funded Projects

The following projects were funded through the Bioresilience Fund in 2025. Amounts shown reflect grants formally awarded to date; additional priority research funding is planned or in progress.

Project Name	Description	Program	Grant Amount (USD)
Murine Norovirus (MNV) Transmission Study	A replication of the 2024 study reporting 99.8% reduction in airborne murine norovirus. This study goes beyond air sampling to use infection outcomes in mice, providing a more direct test of the effect of far-UVC on airborne transmission.	Far-UVC	\$40,000.00
Secondary Chemistry Of far UV Technology (SCOUT) Project	A study to build the evidence base needed to deploy far-UVC safely and confidently at scale by characterizing far-UVC's effects on indoor air chemistry in real-world environments. This research will help establish clear guidelines for ventilation and ozone management, giving regulators, building managers, and public health agencies the data they need to move forward.	Far-UVC	\$500,000.00
Germicidal Ultraviolet (GUV) Systematic Review	A systematic review of historical germicidal UV (GUV) effectiveness and efficacy research.	Far-UVC	\$26,250.00
Quadrupole Electrodynamic Levitation and Extraction of Bioaerosol onto a Substrate (QELEBS)	A study that uses a unique aerosol levitation platform to isolate physical factors driving variability of far-UVC in lab research and produce high-resolution dose-response curves for far-UVC against influenza A and Group A Streptococcus at different particle size, humidity, and aerosol age combinations.	Far-UVC	\$66,500.00
Ozone Modeling	An initiative aimed at evaluating indoor ozone levels when buildings achieve the same clean air targets using far-UVC versus increased outdoor air ventilation.	Far-UVC	\$71,873.00

Overview of 2025 Funded Projects

Project Name	Description	Program	Grant Amount (USD)
Integrated Spheres	An initiative aimed at designing, building, and validating a standardized aerosol susceptibility testing chamber to enable consistent, high-quality measurement of pathogen inactivation under far-UVC.	Far-UVC	\$165,932.00
Exposure of Human Aerosols to far-UVC Light for pathogen Elimination (EXHALE)	An initiative aimed at evaluating far-UVC's effectiveness against influenza and SARS-Cov-2 in real, human-generated respiratory aerosols.	Far-UVC	Project 1: \$500,350.00 Project 2: \$575,000.00 Project 3: \$212,035.00
Determining and Extrapolating Microbial Inactivation and Susceptibility of Tuberculosis (DEMIST)	This initiative determines the precise far-UVC inactivation rate (k-value) of aerosolized <i>Mycobacterium tuberculosis</i> and surrogates in BSL-3 bioaerosol chambers	Far-UVC	Project 1: \$137,504.00 Project 2: \$150,000.00 Project 3: \$169,644.00
Far-UVC Modeling	Program focused on developing multiple modeling approaches and peer-reviewed publications to assess far-UVC efficacy, safety, and inform deployment guidance.	Far-UVC	Project 1: \$47,700.00 Project 2: \$58,650.00
Respirator Fit and Protection Research	A collaboration with the engineering consultancy Amodo Design to expand hands-on respirator testing capabilities, including public fit testing, to better understand respirator performance under pandemic-like conditions.	PPE	\$1,500,000.00
Portable Air Cleaners (PACs) in Schools	An initiative to deploy more portable air cleaners to improve indoor air quality in schools.	BETS	\$53,600.00
Portable Air Cleaners (PACs) Workshop	A full-day workshop bringing together key collaborators from the public health and pandemic preparedness community to identify and understand barriers to deploying portable air cleaners.	BETS	\$25,000.00
		Total	\$4,300,038.00