STUDENT SUSTAINABILITY COMMITTEE

Funding Award and Acceptance Letter

December 6th, 2021

Project: **Engineering Assessment of HVAC Indoor Air Quality: Performance Verification for Energy Efficient Infection Control**

Dear **Dhruvaraj Gambhire and Ali Khan,**

On behalf of the University of Illinois at Urbana-Champaign Student Sustainability Committee (SSC), we would like to thank you for initiating a project that improves the sustainability of our campus. SSC is pleased to inform you that your project will receive **$11,488.00** in grant funding.

In order to remain eligible for this award, you must agree to the following conditions:

1. The project must be completed within two years. A final report of all work completed should be provided to the SSC Assistant Director by **December 6th, 2023**.
2. Project status updates and detailed account statements must be provided at the end of each semester, in the method requested, until the project is completed.
3. The Contact Person will be individually responsible for all official communication and the execution of this agreement.
4. The awardee will take the appropriate steps to create a CFOP with OBFS UAFR University Accounting Services. The CFOP provided for this award shall strictly be used for the money awarded in this proposal.
5. Any substantial modifications to project scope, budget, or timeline must first be approved by SSC. These requests must be submitted in a formal letter to the Chair and the Assistant Director.
6. All projects will be expected to follow campus policies and procedures as well as any applicable State and Federal laws.
7. SSC reserves the right to revoke funding if the project does not comply with the terms and conditions outlined in this letter.
8. Any press releases or educational/promotional materials involving the project should acknowledge SSC funding.
9. Any signage involving the project or events surrounding this project should include SSC's logo and/or a statement of which fee funded the project. Projects must coordinate with SSC to ensure promotion appropriately highlights the SSC's contributions to the project.

If you agree to the terms and conditions for the funding, please sign on the designated line at the bottom of this letter. If you have any questions regarding these requirements please contact the SSC, at sustainability-committee@illinois.edu. You will be notified when the Institute for Sustainability, Energy, and Environment and Vice Chancellor for Student Affairs officially approves this project. Again, thank you for your interest in improving the sustainability of the University of Illinois at Urbana-Champaign. We look forward to working with you in the future.

STUDENT SUSTAINABILITY COMMITTEE

SSC Signatories

Jack Reicherts, Chair
Student Sustainability Committee

Awardee Signatory

Dhruvaraj Gambhire
Applicant

Awardee Signatory

Ali Khan
Applicant

Faculty or Staff Project Advisor (for Student-Led Projects)

Morgan B. White
Faculty/Staff Project Advisor

iSEE Signatory

Dr. Madhu Khanna, Director
Institute for Sustainability, Energy & Environment

Student Affairs Signatory

Dr. Danita Brown Young, Vice Chancellor
Division of Student Affairs

STUDENT SUSTAINABILITY COMMITTEE

Project Information

Project: Engineering Assessment of HVAC Indoor Air Quality: Performance Verification for Energy Efficient Infection Control

Funding Source:

[ ] Cleaner Energy Technologies Fee (302571)

[X] Sustainable Campus Environment Fee (303692)

Funding Amount: $11,488.00

Receiving Campus Unit: Facilities and Services (F&S)

Unit Financial Contact: Mike Alsip

E-mail: alsip@illinois.edu

Project Description:
COVID has drawn our attention towards efficient building ventilation. Existing solutions are inadequate to test air quality. This results in safety and facility professionals operating blindly with enormous building safety, occupational health, and financial consequences at stake. This project will collaborate with a company called SafeTraces. The project intends to verify ventilation and filtration performance in indoor spaces with real-world data. The team will verify engineering controls and HVAC performance for airborne pathogens to keep people safe in any indoor environment. Balancing energy efficiency while delivering human life safety require some new tools.

The team will develop and conduct test scenarios based on a set of realistic and representative conditions within the subject test building (Astronomy Building #0300). The testing design and implementation includes a survey risk assessment and dilution test assessments of specific locations within the building in order to identify potential hotspots, assess ventilation and filtration, verify area isolative efficacy, and inform remediations.

This proposal directly funds:

- Spray Nebulizer DNA w/Tag Label TAGGING SYSTEM
- Air Sample Pumps With Batteries AIR SAMPLES

- Extra AAA Batteries 20-ct (3 each pump) ENERGY
- Filters (Box) LAB MATERIAL
- Cassettes + Filters LAB MATERIAL
- Cassette Plugs (Red) Bottoms (BLUE) LAB MATERIAL
- Ziplock Sample Bags (Large) LAB MATERIAL
- Plastic Weigh Boat LAB MATERIAL
- Cotton Swab 100-ct LAB MATERIAL
- Clean Floor Plans (on paper) PRINTED MATERIALS
- Annotated Plans (on paper) PRINTED MATERIALS
- Data Collection Form PRINTED MATERIALS
- Materials and Equipment Checklist PRINTED MATERIALS
- QC Checklist PRINTED MATERIALS
- Chain of Custody Form PRINTED MATERIALS
- Origin Point Labels PRINTED MATERIALS
- Sample Number Labels PRINTED MATERIALS
- Extra Set Of OP/SP/SN Labels PRINTED MATERIALS
- Face Masks SAFETY PPE
- Lab tests
- Ongoing indoor air quality data monitor (w/ app and cloud-connected dashboard)
- Personnel and wages
- General office and cleaning supplies