

INDOOR AIR QUALITY MONITORING AND RESEARCH

PROJECT OVERVIEW

In collaboration with our partners Kaiterra and BranchPattern, The Alliance Center has installed air quality monitors throughout our building for two purposes:

1. Assist research efforts to measure the perception of indoor air quality (IAQ) and determine whether or not transparency on this topic increases occupant satisfaction and reduces perceived infection risk.
2. Track performance over time to identify opportunities to increase the IAQ and validate improvements in performance.

PROJECT HIGHLIGHTS

- Installed 15 [Kaiterra Sensedge units](#), including one in every suite of the building, one in our first floor Hub Cafe and one [Sensedge mini](#) unit in the building air handler unit.
- Recruited nearly 50 participants in a research effort focusing on IAQ transparency and perception.
- Will submit research findings to a medical journal in 2022.
- Installed portable high efficiency particulate air (HEPA) filters in all of the tenant spaces by summer 2021 when many occupants returned to in-person work.



Photo of one of the Kaiterra Sensedge units, like the ones installed in The Alliance Center to measure indoor air quality throughout the building.

MARKET BENEFITS AND RESEARCH OPPORTUNITIES

- Collecting ongoing air quality data for subsequent [RESET certification](#).
- As part of our response to the COVID pandemic, The Alliance Center implemented recommendations from American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), including increasing outdoor air and implementing an afterhours purge of air. Studies around improving IAQ against energy efficiency is of interest for research opportunities.
- Incorporating IAQ and occupancy readings into HVAC system operations is of consideration for future endeavors.

PARTNERS

