

PROJECT DETAILS
LOCATION

Salt Lake City, UT

BUILDING TYPE

Higher Education

SIZE

 266,831 ft²
INTEGRATION

- Honeywell Building Automation System
- BTU Meters
- Electric Meters

EQUIPMENT

- 125 Laboratory Systems
- 30 fume hoods
- Chilled water plant
- Dual duct air handling units
- Meters

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UNIVERSITY OF UTAH CHEMISTRY BUILDING

BETTER BUILDINGS

The Better Buildings Challenge inspired the University to focus on energy intensive buildings, which lead to a controls upgrade to convert constant volume labs to variable volume. The project's commissioning agent engaged BuildingFit to integrate the building's control system to SkySpark®. This was used as a tool during functional testing and optimization services, all of which fell within the warranty period.

NOT JUST HOT (OR COLD) AIR!

Using SkySpark® during commissioning, the agent found that the hot deck and cold deck air valves never went to zero flow, resulting in simultaneous heating and cooling = wasted energy! The air valve manufacturer re-programmed their firmware in response to actual performance recorded by SkySpark®. The engineer of record recommended air flow reductions to achieve energy savings. Once implemented, SkySpark® made air flow verification on 100% of the equipment easy and efficient. SkySpark® helped the engineer document \$386,000 per year in savings for the owner.

VALUE DELIVERED

- \$386,000 annual energy savings
- Safer student labs
- Proven air flow reduction on 100% of the systems
- Custom analytics for laboratory systems

"The data really helped to get the contractors and the manufacturer of the supply air valves to respond. They couldn't argue about the issue because the data from SkySpark® made it obvious what was happening."

- Facility Manager