

Faster, Stronger, and Bigger Than Ever Before

ARUP Expands Operations Into One of the Most Advanced Labs in the Country





ON THE COVER:

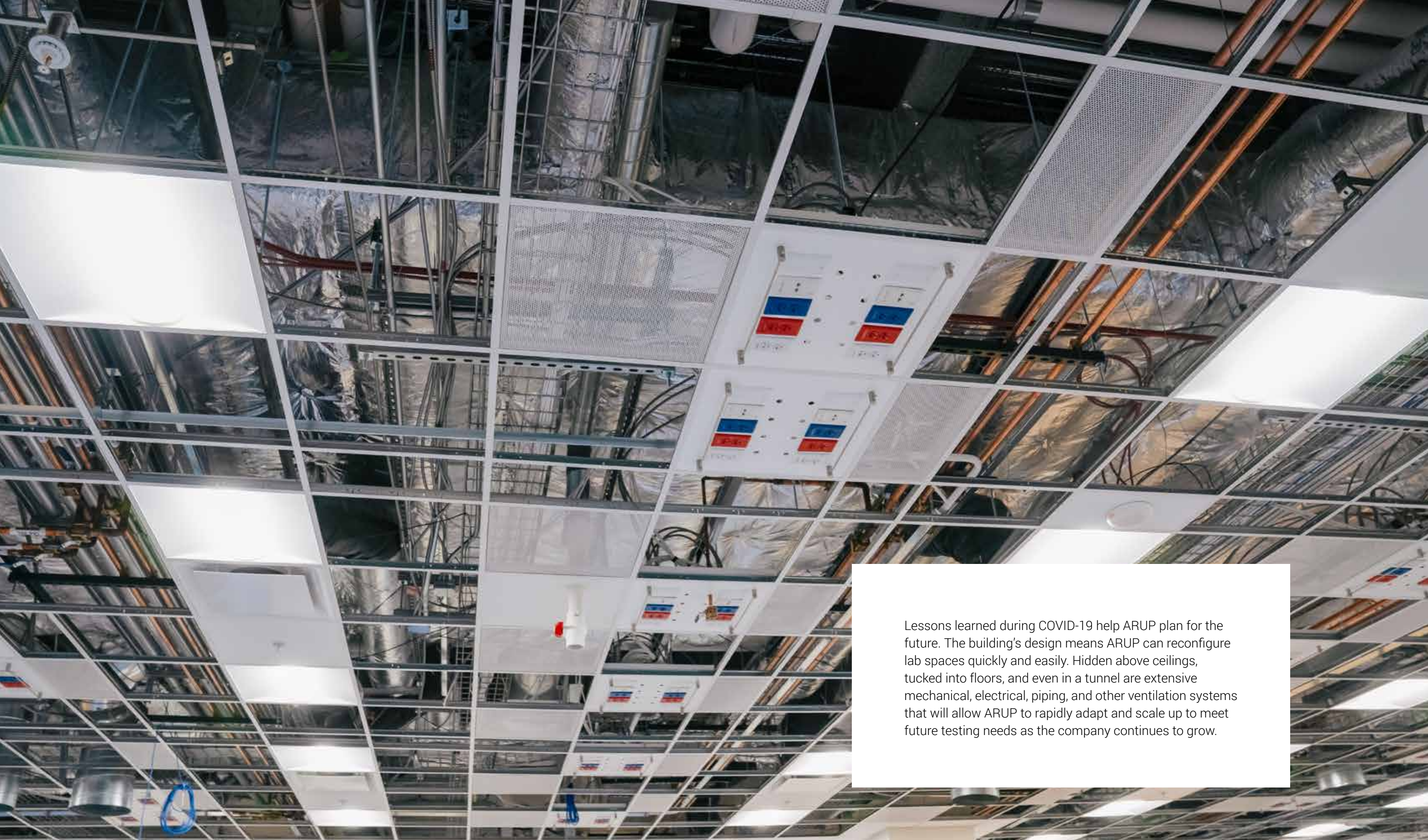
This new building is the epicenter of ARUP Laboratories' centralized and growing operations. Operations span across eight buildings in University of Utah Research Park that include more than 65 labs and encompass 750,000 square feet of physical space. Unlike many national reference laboratories, ARUP has intentionally kept most of its nearly 4,800 employees and labs centralized in one location. The new building added 220,000 square feet and increased the company's laboratory space by 45%.

When the sun rises over the foothills just east of Salt Lake City, a new 220,000-square-foot, four-story building is now silhouetted against the landscape. Opened in June 2021, every aspect of the new building has been carefully designed to optimize large-scale laboratory operations and position ARUP for future growth.



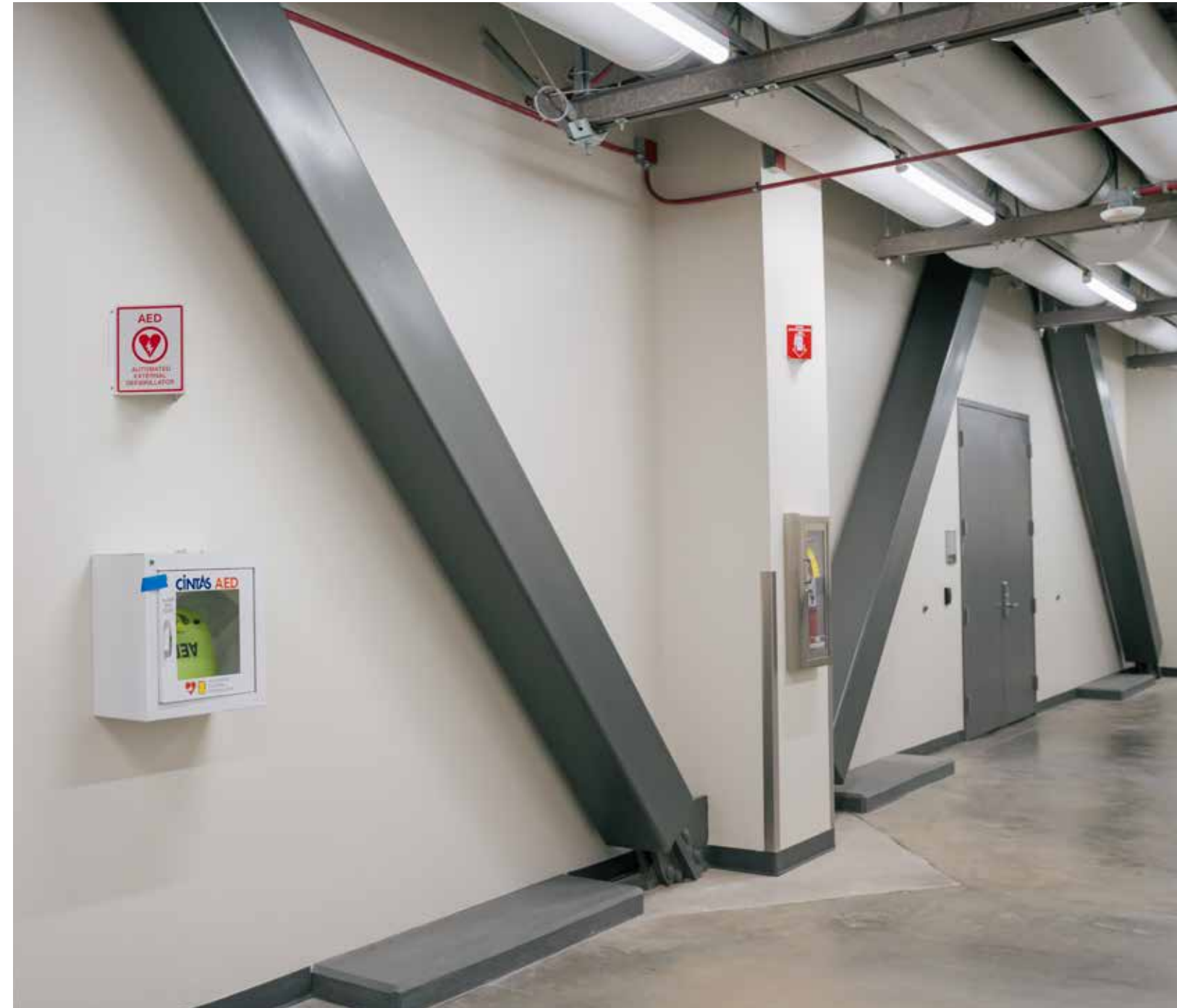
The sophisticated, automated transport system extends 1.4 miles through the building, and up and down four floors. Specimens move up to 90 feet per minute on the custom conveyor system. Up to 70% of previously manual steps have been replaced by automation, improving efficiency at every specimen touchpoint. Every aspect of the lab environment is designed to speed operations and optimize specimen stability, safety, and turnaround times, maximizing every possible quality measure for our clients.





Lessons learned during COVID-19 help ARUP plan for the future. The building's design means ARUP can reconfigure lab spaces quickly and easily. Hidden above ceilings, tucked into floors, and even in a tunnel are extensive mechanical, electrical, piping, and other ventilation systems that will allow ARUP to rapidly adapt and scale up to meet future testing needs as the company continues to grow.

Highly calibrated lab equipment is sensitive to power changes and requires pure deionized water. Redundancies and backups in both the water purification and power systems ensure testing is never delayed due to power failures or other mechanical-system issues.

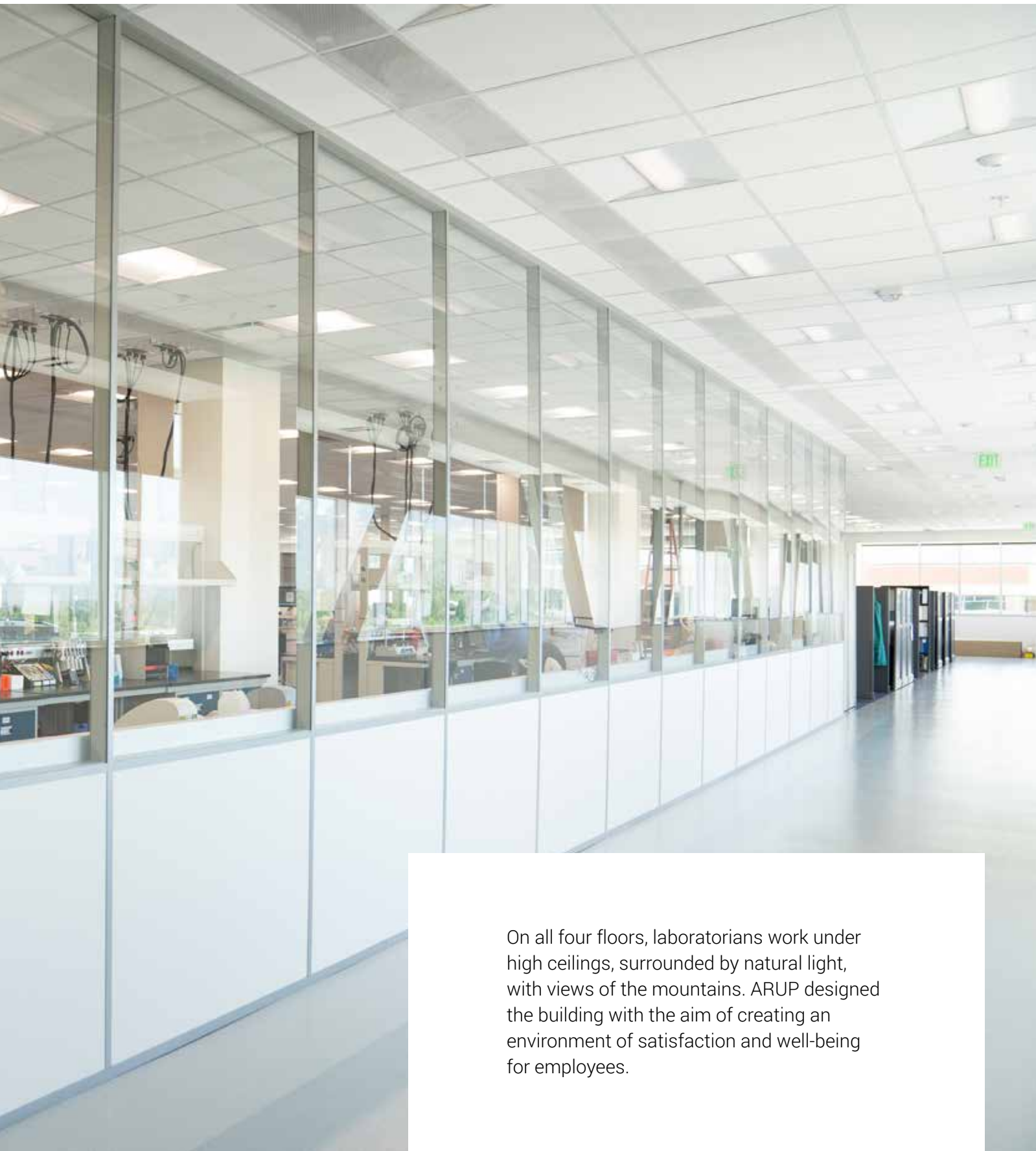


The new facility is constructed to handle a significant seismic event. During construction in Spring 2020, Salt Lake City experienced a 5.2 magnitude earthquake. After the seismic activity ended, inspection of the building showed no damage. Structural chevrons are an important design element to assist with building rigidity to dampen vibrations that could impact sensitive instrumentation. They also displace vibrations caused by the ground shaking during an earthquake.



To customize equipment and provide instant repairs and maintenance, ARUP now houses its machine shop, automation shop, and bioengineering shop in the new building. There are no delays waiting for parts or specialized workers to travel onsite.





On all four floors, laboratorians work under high ceilings, surrounded by natural light, with views of the mountains. ARUP designed the building with the aim of creating an environment of satisfaction and well-being for employees.



The sophisticated and highly efficient ventilation system refreshes air quality between 10-14 times per hour. This ensures that air quality remains uncontaminated for our laboratory workers and keeps temperatures steady to ensure specimen viability.



Every aspect of the new building is designed to take ARUP's already strong commitment to environmental stewardship to the next level. A large bike storage facility serves bicycle commuters, electric vehicle charging stations have been added, and no paper or plastic will be used in the café. The recycling dock increased capacity for more materials, including food waste being turned into compost.



Coming in 2022, the size of the Mass Spectrometry Lab will increase by more than a third for a total of 120 machines. The new space includes three separate chemical control areas to ensure safe use of chemicals. Custom exhausts are being built into the machine footings of each mass spectrometer due to the large amount of power required to operate them and the resulting heat output. These custom exhausts help run the machines at cooler temperatures, which ensures more accurate and reliable testing and less downtime caused by overheating.



Planned for completion in Spring 2022, the expanded Chemistry Core Lab will build additional automation and software enhancements to speed workflow and significantly decrease turnaround times for its 200+ assays (endocrine, general chemistry, tumor marker, and drug testing). These advancements will bring manual specimen touches down from 26 to eight, with a project result of reduced errors and improved turnaround times of up to 44%. With an eye to the future, this section will have enough capacity for 30% growth over the next 10 years.



Read more about ARUP's new expansion in Magnify

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*ARUP is a nonprofit enterprise of the University of Utah
and its Department of Pathology.*

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