

The University of Toledo

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Bowman Oddy Laboratory:

Bowman-Oddy Laboratories, is a 165,000 square foot research and teaching facility for the departments of chemistry and biology as well as the College of Pharmacy. The facility contains state-of-the art research laboratories, modern mediated lecture rooms, a greenhouse, and a fully operational teaching pharmacy. Faculty members in chemistry have research laboratories that average 750-900 square foot of laboratory space. Close access to support space, including instrumentation rooms and walk-in cold rooms, is also available. In addition, the close proximity to researchers in other departments has created many exciting interdisciplinary collaborative research projects among the faculty.



Project Scope:

To keep up with the ongoing research that UT faculty and students conduct each year, IPS performed laboratory renovations and improvements through a flexible schedule - keeping certain labs open during phases that occurred over two separate one year periods. All work was performed and contracted directly with the University of Toledo. IPS was the lead contractor for this work under a separate prime delivery method.

In 2005, IPS removed existing table-top work stations, plumbing and HVAC exhaust systems and installed new fume hood stations, complete with updated natural gas, compressed air, RO water and exhaust systems. IPS replaced existing glass pipe drainage systems with chemical resistant plastic fusion joint systems and installed custom air hoses on the roof to supply HVAC access to all floor levels. Installation of new vertical up-blast exhaust fans on the roof and lined duct for fume hood exhausts was performed by IPS as well. In addition, IPS installed new chilled water pumps and tie-ins to existing central chilled water loops to create new tertiary loops for the labs. IPS also installed emergency eyewash and shower stations, room occupancy monitors and other safety controls that did not exist before in the old labs.

In 2007, IPS provided complete plumbing services including acid waste piping, hot and cold water, RO water, lab air and natural gas piping to new chemistry labs. IPS self-performed HVAC as well as the plumbing work. IPS extended the existing VAV boxes and fume hood exhausts and installed a 70-ton air cooled chiller and heat exchanger to assist in cooling the instrumentation labs year-round while the Central Chiller Plant is in seasonal shut-down. IPS cleaned and upgraded all classroom heating and cooling induction units in the entire building and upgraded the temperature controls as well. To do this, IPS installed temperature control valves at all existing air handling units to better control the buildings heating and cooling. The installation of tertiary chilled water booster pumps were added to assist the Central Chiller Plant's water flow to the top floors of the building.

Project Duration: 24 Months

Project Cost: \$2.6 Million

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