

# The University of Toledo

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## *UT - Bowman Oddy Laboratory*

The University of Toledo is one of 13 state universities in Ohio and is a community built around eleven academic colleges and professional programs. It was established in 1872 and became a member of the state university system in 1967. The University of Toledo and the Medical University of Ohio merged July 2006 to form the third-largest public university operating budget in the state. UT's main campus, located along the banks of the Ottawa River in a residential section of the city, includes historic buildings, modern facilities, contemporary residence halls and abundant green space.

## *General Project Scope*

IPS performed laboratory renovations and improvements during phases that occurred during 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.



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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 also self-performed some HVAC work 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  
*Project Team:* IPS  
University of Toledo

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