

## Laboratory HVAC Project Examples

### University of Oregon Institute of Molecular Biology Lab Remodel

June 2011

Conversion of lab rooms into offices. Evergreen provided mechanical and electrical consulting for this project, including:

- Verifying the heating and cooling capacity in the space and making recommendations for changes.
- Conducting an electrical study to determine the circuit availability and make recommendations for modifying existing circuit arrangements
- Writing specifications for upgrading the fluorescent lights and occupancy sensing switches in the new spaces

### University of Oregon Willamette Hall Room Remodel

February 2012

Conversion of lab rooms into microscope rooms and modify lab to accommodate laser tables. Evergreen provided mechanical and electrical consulting for this project, including:

- Verifying the heating and cooling capacity in the space and making recommendations for changes
- Verifying compressed air outlet
- Making recommendations on the chilled water system to serve the new microscope chiller unit
- Making recommendations for adding a filter to the supply air
- Conducting an electrical study to determine the circuit availability and make recommendations for modifying existing circuit arrangements to meet the needs of the new equipment
- Replacing fluorescent lighting with DC track lighting to eliminate electrical "noise" that would have a detrimental effect on microscope operation

### University of Oregon Microscopy Lab Remodel

October 2011

Reconfiguration of rooms into microscope rooms. Evergreen provided design and documentation to:

- Install new gas and air outlets
- Verify and modify the HVAC to accommodate the equipment and research
- Modify temperature controls to maintain stable room temperature within  $\pm 1^\circ$
- Submit construction documents, technical specifications and a functional description for the new units
- Provide a Capital Cost estimate for the mechanical work at the completion of Design Development and Construction documents
- Provide construction administration services for the mechanical work during the construction phase

### University of Oregon Alice Barkan Lab Conversion

August 2011

Conversion of lab rooms into offices. Evergreen provided mechanical and electrical consulting for this project, including:

- Verifying the heating and cooling capacity in the space and making recommendations for changes
- Conducting an electrical study to determine the circuit availability and make recommendations for modifying existing circuit arrangements
- Writing specifications for upgrading the fluorescent lights and occupancy sensing switches in the new spaces

