

## Education

The demand and strain on the infrastructure for schools and universities has increased substantially with larger class sizes, longer school years and reduced government aid. More attentiveness to indoor air quality, ventilation, student and staff comfort has made building systems ineffective and the operation of them to be cost-prohibitive to meet the demands. Schools and universities face a daunting task when these factors are coupled with a shortened summer break.

Design Tree Engineering & Land Surveying understands the importance of comfort in an educational setting and what is needed to achieve it. Our technical and professional staff has a reputation for successfully delivering on retrofits and new construction to meet each facility's unique needs.

At Design Tree, our knowledge of building systems, commissioning, budgets, rebates, scheduling and MnSCU requirements provides a solid foundation for us to help our Clients succeed in lowering operation and maintenance costs and in providing a comfortable environment for educators and students.

*Design Tree promises top-notch service backed by experience and expertise to meet the needs of the Client – always with the knowledge and attitude that we work for you.*



### **Mechanical Engineering**

- HVAC & Plumbing Design
- Hydronic Heating & Cooling Systems
- Forced Air Heating & Cooling Systems
- Geothermal Systems
- Steam & Condensate Systems
- Humidification & Dehumidification
- Compressed Air & Gas Systems
- Building Control & Automation Systems
- Plumbing Systems
- Specialized Exhaust Systems
- Process Piping & Pump Systems
- Commissioning & Recommissioning
- Energy Analysis

### **Electrical Engineering**

- Electrical Power Systems
- Emergency Power Systems
- Communication Systems
- Lighting & Lighting Control Systems
- Fire Alarm Systems
- Life Safety Systems
- Security Systems
- Data Systems
- Telephone Systems

### **Civil Engineering & Land Surveying**

- Topographic Survey
- Boundary Survey
- ALTA/ASCM Land Title Surveys
- Construction Staking
- Master Planning
- Site Layout
- Site Grading Design
- Site Utility Design
- Storm Water Conveyance and Treatment



**Design Tree** ENGINEERING AND LAND SURVEYING