



BAHEN CENTRE FOR INFORMATION TECHNOLOGY, UNIVERSITY OF TORONTO: TORONTO, ONTARIO



Firm's Role

Environmental Consulting and Engineering Support for Sustainable Technologies

Description

Bahen Centre for Information Technology is an energy efficient 28,000 m² (300,000 ft²) university building. Sustainability and energy efficiency were priorities indicated by the University. A high-quality working environment was supported through operable windows, external solar control elements, displacement ventilation with room controls, direct/indirect lighting and enthalpy control. Elements of integration include stormwater management landscaping, translucent interior walls, smoke control using the ventilation system, and space heating with the adjacent campus cogeneration plant stack heat recovery.

Features

- Solar shading and lightshelves
- High performance envelope and glazing
- Natural and non-toxic materials
- Transparent photovoltaic awnings and atrium glazing
- Daylight penetration, fibre optic lighting and lighting controls
- Desiccant cooling with enthalpy exchange
- Natural ventilation atrium
- 100% outdoor air ventilation
- Vegetated roof and stormwater retention
- Heating by stack recovery of campus steam plant

Architect: Diamond & Schmitt Architects

Owner: University of Toronto