

# OHSU's Center for Health & Healing

Portland, Oregon



*"This project outcome is truly a tribute to an integrated design process."*

Andy Frichtl, PE  
Principal, Design Team Lead

Oregon Health & Science University is expanding its main campus into Portland's developing South Waterfront with a new 400,000 SF, 16-story medical office and wellness building. In addition to a two-story wellness center, the building will include several different types of university operations, including biomedical research, clinical space, outpatient surgery and educational space. Designed for occupancy in the spring of 2006, the medical offices will be built atop a three-level, below-grade parking structure.

Interface Engineering provided HVAC, plumbing, electrical, power and back-up power distribution, lighting, security, energy, telecommunications, data and fire alarm systems design, as well as all tenant improvements and basic commissioning.



In a green building breakthrough, the environmentally innovative engineering design was achieved on a conventional budget for mechanical and electrical.

The design includes such green measures as:

- 61% more energy efficient than Oregon Energy Code requirements
- 100% on-site rainwater re-use system
- 10% net reduction in budgeted HVAC capital costs (\$3 million savings)
- Natural ventilation
- Radiant heating/cooling with thermal energy storage
- Displacement ventilation systems in exam rooms
- **300-kW output from five microturbines**
- On-site sewage treatment, with effluent used for toilet flushing and irrigation
- Solar photovoltaics integrated with the south-facing window overhangs
- LEED® target of Platinum; when complete, it would be largest Platinum-LEED building in the U.S.
- Measurement and verification system for analyzing future energy use

A developer-funded Central Utility Plant (CUP) provides electricity and thermal energy for several of the planned buildings in this area; Interface provided the engineering design for this CUP facility.



LEED Registered

## FAST FACTS

**Interface Engineering Team Leader**  
Andy Frichtl, PE  
503.382.2667

**Building Type**  
Medical high-rise  
New construction

**Developer**  
Gerding/Edlen Development  
Dennis Wilde  
503.299.6000

**Architect**  
GBD Architects  
Phil Beyl, AIA  
503.224.9656

**Builder**  
Hoffman Construction Co.

**Completion**  
Summer 2006

**Building Size**  
400,000 SF

**Awards**  
LEED® Registered  
Platinum target

**Project Cost**  
\$145 million

**Project Scope**  
Sixteen-story medical office and wellness building in an urban setting

