



# Taylor Engineering

1080 Marina Village Parkway, Suite 501 ■ Alameda, CA 94501-6427 ■ (510) 749-9135 ■ Fax (510) 749-9136

## **MOLLY MCGUIRE, P.E.**

Molly McGuire is a Registered Mechanical Engineer with a M.S. in Building Technology from Massachusetts Institute of Technology and a B.S. in Mechanical Engineering from Stanford University. Her graduate work included study of building thermal and fluid flow systems with a focus on low-energy technologies such as natural ventilation. She researched and developed an innovative daylighting system and taught both graduate and undergraduate-level classes on daylighting and building systems.

Ms. McGuire volunteers with the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and has been a voting member of the ASHRAE project committee for Standard 189.1 (Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings) since its inception. She also serves on the project committee for Standard 62.1 (Ventilation for Acceptable Indoor Air Quality).



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## **MOLLY MCGUIRE, P.E.**

### **Education**

2005 Massachusetts Institute of Technology, M.S. Building Technology  
1999 Stanford University, B.S. Mechanical Engineering

### **Registration**

2008 – present State of California: Mechanical Engineer, M-34268

### **Experience**

2005 – Present Taylor Engineering, Alameda, CA  
Senior Engineer. Specialize in green building design for office, institutional, and laboratory buildings including load calculations, energy modeling, visual and thermal comfort modeling, system design, and life cycle analysis.

2003 – 2005 Massachusetts Institute of Technology, Cambridge, MA  
Presidential Fellow. Investigated innovative daylighting technologies. Developed a new system based on deep penetration of reflected light. Studied building thermal and fluid dynamics.

2000 – 2002 Lake Partners Strategy Consultants, Seattle, WA  
Analyst. Researched and developed custom business solutions for companies in telecommunications, health care, and energy industries.

### **Professional Associations**

American Society of Heating, Refrigeration, and Air-conditioning Engineers (ASHRAE)  
Associate Member 2005 – present, Student Member 2003-2005  
Standards Project Committee 189.1 Standard for the Design of High-Performance Green Buildings  
Except Low-Rise Residential Buildings; 2006 – present

United States Green Building Council  
Member, Northern California Chapter, 2005 – present

### **Honors and Awards**

Technology Award for Existing Institutional Buildings, ASHRAE Golden Gate Chapter, 2008.  
Recognized for outstanding achievement in the innovative design of buildings in the areas of occupant comfort, indoor air quality and energy conservation for the Stanford Stauffer I Laboratory renovation.

ASHRAE New Face of 2008.

Travel Grant, Cambridge Science Foundation of America, 2005. Received award to conduct research at the daylighting laboratory at LESO-PB within the Swiss Federal Technical Institute in Lausanne.

Presidential Fellow, Massachusetts Institute of Technology, 2003-2004. Awarded full tuition and stipend to conduct independent graduate research.



**Teaching Experience**

“Daylighting in Buildings” and “Introduction to Building Technology,” teaching assistant,  
Department of Architecture, Massachusetts Institute of Technology, MA, 2003 – 2005. Prepared  
course materials and taught discussion section

**Representative Projects**

580 California Street	San Francisco, CA, Boiler system analysis
Castro Valley Library	Castro Valley, CA, 35,000 ft <sup>2</sup> , LEED NC Silver pending
Convention Plaza Tower Replacement	San Francisco, CA, 310,000 ft <sup>2</sup>
DOE Data Center Assessment Tool	Development of a national tool for data center energy efficiency retrofit analysis
EDR Guidelines	Production of design guides for PG&E Energy Design Resources Non-Residential New Construction Program
Jack London Square Harvest Hall	Oakland, CA, 170,000 ft <sup>2</sup> , LEED CS pending
Joyce Ellington Branch Library	San Jose, CA, 13,000 ft <sup>2</sup>
Lawrence Berkeley Nat'l Lab Data Center	Berkeley, CA, Data center energy retrofit analysis
Pixar Soho Building	Emeryville, CA, 20,000 ft <sup>2</sup>
Stanford Beckman Center Renovation	Palo Alto, CA, 180,000 ft <sup>2</sup> , Energy analysis and retrofit design
Stanford Concert Hall	Palo Alto, CA, 110,000 ft <sup>2</sup>
Stanford Stauffer I Laboratory Renovation	Palo Alto, CA, 28,000 ft <sup>2</sup> , Energy analysis and retrofit design
Stanford Stauffer II Laboratory Renovation	Palo Alto, CA, 28,000 ft <sup>2</sup> , Energy analysis and retrofit design
Symantec Culver City	Culver City, CA, 550,000 ft <sup>2</sup> , LEED NC Gold
The Towers on Capitol Mall	Sacramento, CA, 1,700,000 ft <sup>2</sup>
Watergate Towers	Emeryville, CA, 800,000 ft <sup>2</sup>