

Patrick A. Smith

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Bio

Patrick Smith is a Research Fellow at the Center for Sustainable Building Research at the University of Minnesota. He holds a Bachelor of Arts degree with majors in Music, Mathematics and Physics from Carleton College and both a Masters in Architecture and a Masters in Science: Sustainable Design from the College of Design at the University of Minnesota. Previous to his current appointment, Smith worked in precision tool manufacturing, at several architecture firms in the Twin Cities, as a graduate teaching assistant in the College of Design and as a graduate research assistant for the CSBR.

His research experience includes sustainable building policy and guideline development, utility auditing and performance evaluation, sustainable building guideline comparison, sustainable building metrics, building performance benchmarking, the implementation of life cycle analysis in green building guidelines, and writing for the Minnesota Sustainable Housing Initiative web site. Other interests include housing and energy policy, transportation network efficiency, and the interaction between development patterns and the policies of building codes and zoning regulations. He currently teaches Architecture 4521: Environmental Technology in the undergraduate architecture program.

His current work is primarily involved with development and participant outreach in the B3 and SB 2030 programs.

Employment

Center for Sustainable Building Research

Research Fellow	2008 – present
Research Assistant	2007 – 2008

UrbanWorks Architecture

Intern Architect	2007 – 2008
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Cermak Rhoades Architects

Intern Architect	2006
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Professional Instruments

Fabrication, assembly, testing and analysis	2002 – 2006
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W. Timothy Hess Architect

Intern	2001
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Education

Graduate

College of Design, University of Minnesota	
Master of Science in Architecture: Sustainable Design	2009
Master of Architecture	2008

Undergraduate

Carleton College	
Bachelor of Arts	2002

Research Projects

Center for Sustainable Building Research:

Viking Terrace, Worthington Minnesota Green Building Health Outcome Evaluation. In partnership with the National Center for Healthy Housing. Primary funding from the US EPA and MN BCBS. Research Fellow. Research Fellow. 2007-2008

Athena Eco-Calculator, Primary funding from the Athena Institute. Research Fellow. 2009

USGBC Case Study Database, Primary funding from the USGBC. Research Fellow. 2008-2010

Orness Plaza Charrette. Primary funding from the Blue Cross Blue Shield of Minnesota Foundation. Project Partners the National Center for Health Housing and Southwest Minnesota Housing Partnership. Research Fellow. 2009-2010

Blue Earth County: Breckenridge Townhomes Charrette. Primary funding from Enterprise Community Partners. Project Partners the Blue Earth County EDA and Southwest Minnesota Housing Partnership. Research Fellow. 2009-2010

Worthington: New Castle Townhomes Charrette. Primary funding from Enterprise Community Partners. Project Partner Southwest Minnesota Housing Partnership. Research Fellow. 2009-2010

Minnesota Sustainable Affordable Housing Knowledge Base, Primary funding from the McKnight Foundation, Research Fellow. 2006 – 2011

Aeon and Hope Community South Quarter IV Housing Project Technical Assistance and Metric Development, Primary funding from Aeon and Hope Community. Research Fellow. 2011

Sibley Apartments Charrette. Primary funding from Southwest Minnesota Housing Partnership, Research Fellow. 2011.

Saint Paul Green Building Policy and Green Building Policy Training Program, Funding from the City of Saint Paul. Research Fellow. 2009-2013

“Green Rehabilitation of Elder Apartment Treatments: The GREAT Study”. Primary partner The National Center for Healthy Housing. Primary funding from the Green Healthy Homes Technical Studies Program, U.S. Department of Housing and Urban Development (HUD). Research Fellow. Project Awarded 2010-2014.

Minnesota Sustainable Building Guidelines, Primary funding from the State of Minnesota. Research Fellow. 2008-2015

Minnesota Sustainable Building 2030 program, Primary funding from the State of Minnesota. Research Fellow. 2009-2015

Energy Score Cards Minnesota, Funding from Xcel Energy and Minnesota Housing. Research Fellow. 2012-2015

Ecosystem Services Assessment, Funding from the Wells Fargo Foundation. Research Fellow, 2015