

# Peter Baker, B.Sc., P.Eng.



Peter Baker joined Building Science Corporation in 2005, bringing with him 6 years of experience in building forensic work, as well as enclosure durability and energy efficiency design. At BSC, his main responsibilities continue to focus around building forensics and design reviews, setting enclosure design standards, as well as working as a project manager for the Building America Program.

As the lead associate engineer for building forensic work, Peter is responsible for conducting field investigations of commercial and residential buildings with assembly or system problems that result in moisture-related material degradation and/or indoor air quality concerns. Through plan reviews, field examinations, and analysis, he provides explanations of the cause of the identified problems, and develops retrofit recommendations specific to the building conditions.

Drawing on this experience of building failure dynamics, Peter is responsible for providing design reviews for new and retrofit construction projects for both commercial and residential buildings. In this work, he develops enclosure system details to mitigate moisture and durability risks due to the flow of heat, air, and moisture, while still accounting for the realities of construction practices. His focus is on integrated design, addressing both system durability as well as energy efficiency.

As a project manager under the Building America Program he acts as the direct contact with residential builders, to evaluate building characteristics to optimize energy efficiency and performance. This work includes whole-house energy simulation modeling and economic analysis to gauge affordability and cost-effectiveness of building upgrades.

Prior to joining BSC, Peter worked for the Technical Services Branch of the Provincial Government of Alberta conducting building forensic investigations, performing drawing design reviews, and setting design standards. During his time at Alberta Infrastructure he worked on several hundred projects that included health care centers, schools, multi-family residential, and historic buildings.

His final years at Alberta Infrastructure were more focused on the energy efficiency and sustainability of building enclosure construction assemblies. He participated on several LEED projects and worked on creating standards for sustainability and integrated design to be used for all Alberta Government-owned and funded facilities.

## Education

University of Alberta  
Edmonton, Alberta  
Bachelor of Science in Civil Engineering

## Professional Registrations and Memberships

Association of Professional Engineer's, Geologists, and Geophysicists of Alberta (APEGGA)



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