




# Matt Grace

## Sustainable Buildings Engineer




*Matt is an experienced sustainability professional with a proven track record in all aspects of sustainable buildings and communities. In a career spanning 32 years to date, Matt has worked on the research and delivery of sustainable buildings and communities in Europe and Canada and has an extensive record of presentations around the world.*

| Summary of personal information |   |  |
|---------------------------------|---|--|
| Contact:                        | 613, 15 <sup>th</sup> Street NW, Calgary, Alberta, T2N2B1 Canada<br>Email: <a href="mailto:me@mattgrace.ca">me@mattgrace.ca</a><br>Website: mattgrace.ca<br>Cell : 403 926 5375   |  |
| Key Qualifications Achieved     | <ul style="list-style-type: none"> <li>• <b>LEED Fellow.</b> Designation awarded to leaders in the field of sustainable buildings by the USGBC. Currently only two LEED Fellows in Alberta.</li> <li>• <b>Professional Engineer (P.Eng).</b> Awarded by APEGA to engineers meeting all professional practice standards.</li> <li>• <b>Bachelor of Engineering</b> (with Honours) in Aeronautical Engineering from University of Manchester, UK. 1992</li> <li>• <b>Master of Science: Energy and the Environment</b> from Cranfield University, UK. 1995</li> <li>• LEED AP BD+C</li> <li>• LEED AP ID+C</li> <li>• LEEDP AP ND</li> <li>• Built Green HD Verifier</li> <li>• BREEAM Assessor</li> <li>• EcoHomes Assessor</li> <li>• CEEQUAL Assessor</li> <li>• The Natural Step</li> <li>• Chartered Environmentalist (C.Env)</li> <li>• Living Future Accredited</li> <li>• Introduction to Building Envelope Science</li> <li>• Building Science Fundamentals</li> </ul> |  |
| Key Skills                      | <ul style="list-style-type: none"> <li>• Holistic approach to Sustainability</li> <li>• Sustainability Appraisals</li> <li>• Development of Environmental Assessment Methods</li> <li>• Sustainable design and construction</li> <li>• Energy efficiency</li> <li>• Renewable energy</li> <li>• Business development</li> <li>• Regenerative and Living Buildings</li> <li>• Presentations</li> <li>• Communication</li> <li>• Innovation</li> <li>• Team working</li> <li>• Personal drive for sustainability</li> </ul>   |  |

| Selected Employment History   |  |                                 |
|---|--|---------------------------------|
|  | <b>Matt Grace Sustainability Inc - Calgary</b><br>Independent Sustainability Consultant working on a range of projects including decarbonizing existing buildings and sustainability strategies for new buildings. Challenges that Matt has worked on in this phase of his career have included assessing and addressing the sustainability needs of a wide range of project type, including a single family, net zero home, an existing 1974 office building, a new development of 24 new luxury mountain town homes and a decarbonization plan for a 1 million sq. ft office building. | October 2023<br>-<br>Present    |
|  | <b>Gap Year</b><br>Career break focusing on family, sport and travel whilst staying current on sustainable buildings through Board Membership of Alberta Ecotrust, Chairing Technical Standards Committee for Built Green Canada, and Board Membership of Green Economy Calgary.   | March 2022<br>-<br>October 2023 |
|  | <b>Mission Green Buildings - Calgary</b><br>Matt founded Mission Green Buildings (MGB); a Calgary based green building consulting engineering firm for all aspects of sustainable buildings. The firm grew to 25 full time staff, successfully completing many large and small projects. MGB became part of Integral Group at the end of 2018, where Matt worked as Managing Principal until March 2022.   | April 2012<br>-<br>March 2022   |

# Matt Grace

## Sustainable Buildings Engineer

|   |  |                                   |
|---|--|-----------------------------------|
|   | As awareness of climate issues within Alberta's construction grew, Matt lead several clients through increasingly sophisticated approaches to green buildings, including Living Building Challenge, analysis of future climate impacts and healthy buildings as codified by WELL and Fitwel. Matt collaborated with several designers and developers to help them shape their own unique approaches to sustainable buildings in an evolving marketplace.   |                                   |
|    | <b><i>Enermodal Engineering – Division Head (Western Canada) - Calgary</i></b><br>Matt grew this sustainable buildings consultancy office from 4 staff to 21, maintaining profitability, quality and a consistent level of green achievements. Services included LEED for all building types, new and existing as well as community level sustainability, sustainability strategies and research.<br>During this period, LEED was still a new sustainable building requirement, and in high demand during a time of a construction boom in Alberta. As provincial, federal and market demands for greener buildings and LEED certification multiplied, Matt took on the challenge of collaborating and education the construction industry on approaches to meeting these new requirements that resulted in practical and cost-effective design solutions. | March 2007<br>–<br>Feb 2012       |
|    | <b><i>Ferguson Brown Sustainability – Director – United Kingdom</i></b><br>New business start-up offering consultancy on all aspects of sustainability in the built environment. Responsible for business development, financial performance, recruitment technical quality. Financial break even was achieved within three months of start up along with rapid expansion of client base, staff, and range of services.  | March 2006<br>–<br>March 2007     |
|  | <b><i>Scott Wilson – Principal Consultant, Sustainable Construction</i></b><br>Introduced a new service to a large multi-disciplinary consultancy. Developed a business stream with an annual turnover of £400k and excellent profit margins. Secured several major clients and grew team from zero to eight staff.<br>Matt was the first sustainability specialist in a firm of 2500 buildings and infrastructure engineers, collaborating with large teams to help them integrate sustainable design practices for the first time. This required an approach tailored to suit engineers not accustomed to considering these issues and lead to significant success on several major projects.  | October 2001 –<br>February 2006   |
|  | <b><i>Building Research Establishment – Project Manager</i></b><br>BRE is the UK's leading centre for sustainable construction research. Matt's roles included delivery of government energy efficiency best practice programmes, provision of energy efficiency advice, technical development of BREEAM and European research projects.<br>Matt project managed government funded studies into innovative ways of improving heating and cooling efficiency, took a leading role in demonstrating and running. The Energy Office of The Future. Matt's responsibilities also included training and education of construction professionals.  | October 1997 –<br>October 2001    |
|  | <b><i>ECD Energy and Environment – Environmental Consultant</i></b><br>Part of small team working alongside an architectural practice, providing environmental assessments, design advice and European funded research. Worked alongside the authors of the first versions of BREEAM, the first mainstream green building rating system.<br>During these early days of green buildings, research and guidance was not abundant and few construction professionals had significant experience in the field. Matt engaged with many major architects such as Fosters and Partners, helping them navigate their first steps towards greener buildings.  | January 1995<br>–<br>October 1997 |






# Matt Grace

## Sustainable Buildings Engineer

| Qualifications and Designations  |  |                |
|--|--|----------------|
| Please note that some of the professional designations are time limited and have not been renewed. |  |                |
|                   | <b>French Language Courses</b><br>Learning French with Alliance Francaise Calgary and Montreal to Intermediate B1.3 Level for personal development and to better appreciate French culture.  | 2021 - Present |
|                   | <b>Introduction to Building Envelope Science</b><br>Self-directed online course and examination on building envelope science through Holland College.  | 2024           |
|                   | <b>Building Science Fundamentals</b><br>Live Virtual Seminars by Dr Joe Lstiburek of Building Science Corporation.   | 2024           |
|                   | <b>Living Future Accredited (LFA)</b><br>Acted as a Living Building Ambassador for this framework for sustainable, restorative, net zero energy and water construction projects. Obtained Living Future Accreditation (LFA) professional designation in 2021.  | 2021           |
|                   | <b>RETScreen Expert</b><br>Matt successfully completed this CIET online course to become a Certified RETScreen® Expert (CRE). RETScreen is a tool for assessing renewable energy and energy efficiency measures that is used by many federal grant programs.   | 2021           |
|                   | <b>Fitwel Ambassador</b><br>Obtained the designation for professionals demonstrating in depth knowledge of Fitwel, a certification system for optimizing buildings for health and well-being.  | 2019           |
|                 | <b>Green Building Pioneer</b><br>In 2018, Matt received the Green Building Pioneer Award from the CaGBC in recognition of his leadership roles in promoting sustainable buildings in Alberta.  | 2018           |
|                 | <b>LEED Fellow</b><br>Achieved the highest level of recognition from the USGBC following a decade of working on LEED projects and achieving LEED AP designations for Existing Buildings, New Construction, Neighborhood Design, and Interior Design and Construction. One of two LEED Fellows in Alberta | 2017           |
|                 | <b>WELL AP</b><br>One of the first WELL Accredited Professionals, from the International WELL Building Institute on this comprehensive, science based healthy building approach.   | 2016           |
|                 | <b>Green Globes Professional</b><br>Obtained the professional designation for the Green Globes green building rating system, applied internationally.  | 2015           |
|                 | <b>The Natural Step</b><br>Sustainability for Leaders Level 1 in The Natural Step approach to sustainability.  | 2011           |
|                 | <b>Professional Engineer (P.Eng)</b><br>P.Eng, registered with APEGA, the Professional Engineers' organisation of Alberta.   | 2008           |
|                 | <b>Chartered Environmentalist</b><br>One of the first professionals to achieve this new qualification launched to recognise achievements of professionals working in sustainable development.  | Sept 2006      |

# Matt Grace

## Sustainable Buildings Engineer

|   |  |               |
|---|--|---------------|
|  | <b>Full Member – IEMA (Institute of Environmental Management and Assessment)</b><br>IEMA is the leading professional organisation in the UK for those working with assessment of environmental performance.  | July 2006     |
|  | <b>CEEQUAL Assessor</b><br>CEEQUAL (Civil Engineering Environmental Quality) is an advanced method for evaluating and improving the sustainability of civil engineering projects such as bridges, roads, tunnels, and drainage.  | December 2006 |
|  | <b>BREEAM Assessor</b><br>BREEAM (Building Research Establishment Environmental Assessment Method) is the longest standing and most used tool for assessing and enhancing environmental performance of buildings. Qualified and expert in all versions of BREEAM including Commercial, Industrial, Retail, Schools, and Housing.   | January 1995  |
|  | <b>Masters in Energy and the Environment (Cranfield University)</b><br>Individual project award and top three grades for this 12-month year intensive course covering all energy and environmental issues. The field-based aspect of this course involved an in-depth assessment of the energy and environmental performance of a large manufacturing facility, Rolls Royce Power. | 1994 – 1995   |
|  | <b>B.Eng (Hons) – Aeronautical Engineering (University of Manchester)</b><br>Engineering degree including final year project “Design and testing of a small-scale vertical access wind turbine.”   | 1989 – 1992   |