Connecting People and Places

Buildings
Cover / Royal Ontario Museum, Toronto, ON; Above / Isabel Bader Theatre, Kingston, ON
URBANIZATION.  
CLIMATE CHANGE.  
SUSTAINABILITY.

Can the buildings we design today address solutions to the problems of air pollution, noise, greenhouse gas emissions, overcrowding? Can we design buildings that minimize risk and are that are resistant to costly damages throughout their lifecycle? Can the materials, technologies and processes we use today across a building's lifecycle impact future generations?

Our building experts understand the challenges we all face and the complexities associated with designing and delivering services for all types of buildings across our unique and ever-changing Canadian landscape. A world-leading consultancy, we have successfully delivered some of the most spectacular and iconic buildings projects in Canada and around the world.

We tackle these challenges with a whole-project approach. More than just experts in buildings, we are complemented by a wide-array of services including civil engineering, urban planning, environmental science and planning, landscape architecture, and transportation and traffic engineering. With this breadth of talent and in-house experience, our team is able to anticipate, quickly identify, and solve the many technical challenges we encounter daily on our projects; our firm's diverse mix of projects and personal experience are drawn upon to provide valuable insights into the design, construction, and delivery processes.

Integrated design team
With strong core services, we also provide a wide range of specialty services across the building life cycle – forming teams that are able to deliver solutions tailored to our client’s specific needs.

Local expertise, global depth
With experts in over 150 offices across Canada, we are part of global team that delivers iconic buildings around the world.

Simple to complex
We can do anything. From the tallest buildings to the smallest of projects, we help our clients find value no matter the complexity of their project.

Delivering on all project procurement models
Infrastructure funding has changed and with that, so have the methods projects are procured and delivered. From Design-Bid-Build to Public-Private Partnerships, we understand the intricacies of navigating through this landscape and are the engineering partner-of-choice.

Our commitment to sustainability
Beyond living this commitment, we deliver trend-setting sustainable buildings to benefit future generations.

Future ready thinking
Mindful of the growing awareness related to issues such as diminishing resources, global warming, changing demographics and advancing technologies, our client interactions focus on today’s reality as well as future requirements.
1,700 Buildings Professionals across Canada

#1 Best Services Engineer (World Architecture 100)

46 of Canada’s top 100 Infrastructure projects

500+ LEED® Certified Projects across Canada

Clockwise from top left:
01 / The Shard, London, UK; 02 / Fairmont Chateau Lake Louise, Lake Louise, AB; 03 / Union Pearson Express Platform and Waiting Lounge, Toronto, ON; 04 / One World Trade Center, New York, USA; 05 / Surrey Memorial Hospital, Surrey, BC; 06 / Videotron Centre, Quebec City, QC
## Main Services

### BUILDING SCIENCES
- Enclosure engineering façades and roofs
- Property condition assessment
- Condominium and strata assessment
- Repair and renewal
- Forensic and dispute resolution
- Recommissioning

### MECHANICAL & ELECTRICAL ENGINEERING
- Heating, ventilation, air conditioning (HVAC)
- Building automation systems (BAS) and controls
- Electrical service and distribution
- Renewable energy technologies
- Emergency and standby power
- Plumbing design and engineering
- Lab and medical gas systems
- Tenant fit-out

### PROJECT MANAGEMENT
- Pre-development and development services
- Program and project management
- Strategic advisory services
- Commercial management
- Project readiness
- Construction services
- Engineering and design management

### STRUCTURAL ENGINEERING
- New structures
- Additions and renovations
- Value engineering and peer review
- Security and blast design
- Structural glass design
- Seismic engineering
- Wind engineering
- Wood and timber engineering

### SUSTAINABILITY & ENERGY
- Sustainability strategy
- Green building benchmarking – LEED, GRESB
- Building performance
- Measurement and verification
- Commissioning
- Net zero
- Energy management
- Facility management
- WELL Building Standard

### TELECOM & TECHNOLOGY
- Access control systems
- Emergency communications systems
- Network systems
- Physical and electronic security
- Surveillance systems
- Structured cabling systems
- Telecom infrastructure design
- Wireless infrastructure implementation
Specialized Services

**BIM**
- Parametric modeling
- 2D/3D modeling for design support
- Simulation, design validation and review
- Multi-disciplinary collaborative work processes

**FIRE PROTECTION ENGINEERING**
- Fire and building code consulting
- Sprinkler design
- Fire alarms and security

**FOOD SERVICE DESIGN**
- Auditing, strategic planning and budget estimates
- Food service planning
- Refrigeration and exhaust system design
- Procurement management
- Laundry and waste management

**LIGHTING STUDIO**
- Architectural lighting design
- Exterior façade lighting
- Landscape and site lighting
- 3D computer modeling, rendering and analysis
- Lighting control design and programming

**SECURITY**
- Threat and risk assessment, security audit and program planning
- Design and implementation of architectural, physical and electronic mitigation measures
- Organizational integration of security
- Project management

**Sectors**
- Commercial
- Cultural
- Education
- Government
- Healthcare
- High Rise
- Hospitality
- Industrial Buildings
- Master Planning & Urban Development
- Mission Critical Facilities
- Residential
- Retail
- Science & Technology
- Sports & Stadia
- Tenant Interiors
- Transport Buildings

Edward Drake Building, Ottawa, ON
WSP is uniquely able to deliver an integrated design package across the building lifecycle – one that both satisfies current needs of our clients and is Future Ready.

Terry Tommason
Senior Vice-President, Buildings, WSP
WSP™ is one of the world’s leading professional services consulting firms. We are dedicated to our local communities and propelled by international brainpower. We are technical experts and strategic advisors including engineers, technicians, scientists, project managers, planners, surveyors and environmental specialists, as well as other design and program management professionals. We design and deliver lasting solutions in the Buildings, Transportation, Infrastructure, Environment, Geomatics, Energy, Resources and Industry sectors as well as project delivery and strategic consulting services. With over 8,000 talented people across Canada and 42,000 globally, we engineer projects that will help societies grow for generations to come.