
SECTOR CAPABILITY

Retail

OPPORTUNITIES
THROUGH
EXCELLENCE

bgeeng.com

BG
&E

Introduction

BG&E is an international civil and structural engineering consultancy celebrated for its innovative, cost-effective, and award-winning designs.

With a dynamic team of over 780 people spanning 16 offices worldwide — including Australia, New Zealand, South East Asia, the United Kingdom and Middle East — we unite local and international professionals to deliver practical solutions with a strong focus on constructability.

Our clients consistently return to us, attesting to our exceptional service, responsiveness, and track record for delivering tailored solutions for technically challenging projects. The quantity and scope of engineering awards we've received acknowledge our diverse industry contributions and the exceptional quality of the services we deliver across a host of regions, disciplines, and sectors.



The Retail Sector



*Darby Plaza —
Newcastle, NSW, Australia.*

The retail sector has undergone significant change over the past decade, driven largely by the growth of e-commerce — a trend accelerated by the pandemic, when lockdowns forced many physical stores to close and many consumers placed their first (but not last) online orders.

Today, retail spaces have evolved to focus on what digital platforms cannot offer — engaging, in-person experiences. This 'experience economy' combines shopping with dining, social spaces, and leisure activities, transforming retail spaces into destinations.

Flexibility of the structure is key — enabling spaces to evolve in line with their customer base and maintain novelty through varied offerings that attract both retailers and visitors.

We work closely with creative designers, architects, and clients to deliver a successful retail environment with individual atmosphere and exceptional customer experience. We are actively involved in the master planning stage of the projects to ensure the structural framing responds to the design objectives, with the inclusion of refurbishment elements where required.

BG&E has delivered retail projects in Australia and internationally, with design experience encompassing one-off boutique stores, flagship stores, retail showrooms, shopping centres, and major retail precincts.

*Castle Towers —
Sydney, NSW, Australia.*



Key Services



Structural Engineering

BG&E is one of Australia's leading structural engineers and has delivered iconic, award-winning projects across the globe. Drawing upon our extensive expertise, we deliver our clients' visions for a project by working collaboratively with architects and stakeholders. We have a focus on providing constructable structures which we achieve by simplifying designs and embracing innovative approaches.



Civil Engineering

We deliver civil engineering services for projects of varying scales — encompassing land development, urban civil, and public domain spaces. Our expertise combines technical know-how and efficient resource utilisation to deliver sustainable, optimal outcomes.



Façades

BG&E Façade Consultants are internationally recognised for our innovative façade solutions.

We specialise in the design of aesthetically pleasing, energy efficient, and cost-effective facades — providing design, architectural detailing and engineering, thermal performance, materials science, and remediation and recladding solutions.



Materials & Durability

As leaders in our field, our Materials team is experienced in delivering cutting edge design and construction staged services, supported by strong links to academia and industry partnerships.



Construction Engineering

We design structural and civil temporary works solutions and sequencing advice to support our clients' construction methodology.



Digital

BG&E, a leader in digital engineering, has earned a reputation for excellence by consistently advancing systems and workflows.



Flooding & Hydrology

We believe that understanding flood risks is key to delivering positive outcomes.



Timber

A strategic merger with Timber Design Studio combines our engineering excellence with their unparalleled expertise in mass timber construction and materials science.



Sustainability

One of the most significant enhancements of sustainability in construction is achieved through good design.

Our Differentiators



Certainty of Delivery

Guaranteed timely delivery through early engagement, focused collaboration, and strong stakeholder relationships.



High Calibre Expertise

Industry-leading specialists committed to consistency and excellence from tender to project delivery.



Innovative Engineering

Bespoke, efficient engineering solutions with a keen eye on constructability and project-specific needs.



Sustainability Focused

Advanced practices including carbon calculation, Greenstar advice, and long-term environmental strategies.



Collaborative Approach

Expertise driven by collaboration with clients and consultants for enhanced project outcomes.



Digital Engineering Prowess

Over a decade in cutting-edge Digital Engineering - integrating BIM, GIS, and the latest technologies for optimal results.

*Resorts World Oceanarium —
Sentosa, Singapore.*





At BG&E, we are united by a common purpose — we believe that truly great engineering takes curiosity, bravery and trust, and is the key to creating extraordinary built environments.

Our team of more than 780 highly skilled people, in offices across Australia, New Zealand, Singapore, the United Kingdom and Middle East, design and deliver engineering solutions for clients in the Property, Transport, Ports and Marine, Water, Defence, Energy and Resources sectors.

