

# EXCELLENT BY DESIGN



**GCM INDUSTRIAL**  
ENGINEERING LTD

GCM Industrial Engineering provide high quality, cost effective, innovative engineering solutions. Using our technical expertise we seek to provide complete project life cycle solutions and to be an invaluable and consistent partner to our customers.

We always strive to exceed our client's expectations. We believe that openness and transparency are key to building a trusting relationship with our clients, enabling us to deliver with utmost confidence and an absolute understanding of the project deliverables.

## SECTORS WE WORK IN

OIL & GAS

DEFENCE

CONSTRUCTION

WASTE TREATMENT

AEROSPACE

NUCLEAR

POWER GENERATION

BUILDING SERVICES



## TURNKEY ENGINEERING

GCM Industrial Engineering offer a complete engineering and design service for projects in many sectors.

We offer tailored engineering support covering structural, process, electrical control and instrumentation systems and MEICA but also dedicated project engineering & management, working alongside the customer's existing team, providing technical expertise or managing complete projects on their behalf.

Our services provide many benefits for our Clients who are usually Consultants, Corporations and EPC contractors, by taking responsibility for complete projects or packages of work. GCM can:

- Take on the role of Principal Designer, freeing up client resource for other project activities
- Provide our Client a quick response to engineering queries and impacts
- Ensure communication between our Client and GCM is controlled, therefore efficient and minimised
- Control all engineering communications with suppliers



## ENGINEERING DESIGN & ANALYSIS

Our engineering team is highly skilled and can provide a wide variety of engineering services.

- **Engineering Analysis & CAE**
  - CFD, FEA and Structural Analysis
  - 2D and 3D CAD
  - System modelling (Matlab, Simulink)
- **Process Design**
  - Concept and FEED studies
  - Valve and pump sizing
  - Combustion & Heat Transfer equipment, CHP, Piping Systems
  - Heat & Mass Balance, PFD's, P&ID's
- **Mechanical & Structural Design**
  - Equipment, Components, mechanisms
  - Pressure vessels, piping & supports, transport frames, manufacturing jigs
  - Structural design of buildings, frames, platforms, stairs
  - Steelwork GA and detailed fabrication drawings, setting out drawings & templates, installation & erection drawings



## QUALITY

Quality is central to what we do and is reflected in the deliverables produced for our clients. In addition to client project specifications, we follow applicable industry codes and standards, as well as appropriate regulations. Some examples are as follows:

Codes and Standards: ASME, API, NFPA, BS, EN, EU, IEC, UBC, MIL-STD, NACE

Regulations: H&S, COSHH, CDM, DSEAR, GSUIR, WRAS, IET



## ELECTRICAL, CONTROL & INSTRUMENTATION

We provide turnkey electrical, control and instrumentation engineering and design solutions for new facilities as well as system integration and expansion or upgrade of existing facilities.

- HV and LV electrical power distribution design
- Cable management and containment design
- Lighting systems design
- Control panel design
- Junction box design
- Control system architecture design
- PLC and SCADA solutions
- BPCS, DCS, SIS
- Software solutions
- Control system integration
- Instrumentation and interface design
- Network and infrastructure design





## BUILDING SERVICES

We offer a complete design engineering service for heating, ventilation, air conditioning, plumbing and wastewater, electrical and controls (BMS), lighting, steam and condensate, gas and oil fuels.

We are CIBSE members and practise close liaison with architects, structural engineers and clients.

Our work complies with current British, European and American Standards and Building Regulations including SAP and SBEM. We have in-depth experience of Health and Safety and CDM requirements.

We provide for many sectors including Industrial, Domestic, Commercial, Retail, Offices, Shops, Hotels, Residential and Retirement Homes, Hospitals, Health Centres, Medical and Health Services, Energy Centres, Utilities, Oil and Gas, Nuclear, Paper, Aerospace, Manufacturing and Production, Combined Heat and Power, Paper Mills, and Oil Refineries.



## CIVIL DESIGN

GCM can provide a range of services for the upgrading and design of new sites and facilities.

- ✓ Geotechnical and Topological surveys
- ✓ Setting out of the site (equipment, above/below ground services, ducts, road access, etc.)
- ✓ Site drainage design
- ✓ Foundation design
- ✓ Design of reinforcing and gabion walls and specification of engineering backfill
- ✓ Mechanical & Electrical design, including HV and LV
- ✓ Detailed civil construction drawings

## EXCELLENT BY DESIGN

By choosing GCM Industrial Engineering you are choosing a partner who will be with you every step of the way. Our technical expertise is the foundation on which we seek to build and develop strong relationships with our clients.

## CONTACT US

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