CPMG is an award winning firm providing services in architecture, interior design and visualisation.

Practice Profile

We pride ourselves on delivering exceptional service to our clients, producing the highest standard of design, on time and within budget.

We’ve been established for over 30 years and so our depth of knowledge and breadth of experience is impressive.

Our experienced designers are approachable and down-to-earth, guiding clients and users through the complicated process with ease.

We listen to our clients and combine creativity and practicality to produce visually striking buildings that work.

To sum it up, we’re client-focused and we’re good people to work with. The following values always underpin our work:

- Striving to improve the built environment through innovative and sympathetic design
- Putting sustainable and environmentally conscious design at the heart of our projects
- Helping our clients get best value from their building
- Making sure our designs are practical and buildable
- Working closely with our clients, other consultants and contractors to ensure an integrated team approach to building
- Providing our staff with the right software and hardware for the job
- Keeping our staff informed and up-to-date with our in-house continuing professional development programme
CPMG has designed many types of process facilities, often within challenging budget and time constraints. In every case the architectural designs are determined by the activities taking place; the process is king.

We have completed a number of projects across the UK for the aeroplane engine manufacturer, Rolls-Royce. This includes many technical facilities for the manufacture and coating of turbine blades.

We have particular skills in the design of waste management and waste to energy projects; we provide particular value at the early stages in assessing the potential of sites for particular processes.

Our clients include: Arup, GlaxoSmithKline, Alliance, Boots, Laing O’Rourke, Rolls Royce and Reckitt Benckiser.

We understand the strict requirements and constraints of facility construction and are responsive to our clients’ schedule and budget considerations.
Rolls-Royce Control and Data Services (AEC)

CDS provides safety critical controls and asset solutions in the aviation, defense, marine and industrial sectors.

In the aviation sector CDS’s experience of cutting edge high integrity systems has taken in everything, from the first production turbofan, through to the next generation of high by-pass engines.

This project relocates CDS to a brand new 27,500sqm facility on Birmingham Business park.

CPMG is working with BAM construction to deliver this advanced manufacturing and technology facility to carry out research, design, manufacturing and testing for their ongoing business operations.

The new building incorporates production, assembly, product testing and office accommodation.
A new facility of 5,000 sqm for Rolls-Royce at the Barnoldswick site near Burnley in Lancashire, the Company has occupied land and buildings in Barnoldswick for over 70 years. The building houses workshops and ancillary accommodation for the manufacture of aircraft engine turbine blades, thus expanding Roll-Royce’s capability to support gas turbine aero engine assembly in Derby and Bristol.

In common with other CPMG projects for Rolls-Royce the building is fully compliant with their briefing documentation, its house design style clad and brand criteria with ppc aluminium panels and distinctive curved roofs.

Additional cost is incurred as it is necessary to remove a large earth mound from the site and a gabion-wall structure will need to be constructed to retain the embankment to the adjacent Leeds and Liverpool Canal.
The Raynesway Estate Strategy is to support the Rolls-Royce Submarines Business to deliver best value naval reactor plants; the development plan shows how to do this through a programme of integrated infrastructure investments.

The plan considers three alternative business driven scenarios and the implication of these scenarios for the future development of the estate.

Prepared with Arup, the plan provides an overview of the current estate highlighting critical constraints, the demands on the estate, and makes recommendations for implementation over the next 10 years. The plan also considers potential savings achieved through adopting different working methods and the consequent opportunities offers for further use of the site.

The plan delivers improved pedestrian movements, office accommodation, flood resilience, improved security resilience and removal of ageing office accommodation/temporary buildings. The final product is a site with potential for further development by the Submarine and wider Rolls-Royce Business.
Thames Gateway

A CPMG designed waste to energy plant in Dagenham that uses the innovative RODECS process patented by Chinook Sciences. The plant will export 14MW to the grid, sufficient to power 32,000 homes.

In addition to the RODECS Hall, the layout includes a reception hall and space for sorting residual waste post process. There is also a large substation, offices, welfare facilities and car parking.

The layout of facilities on the site has been determined by marrying up the requirements of the process with the constraints imposed by the National Grid overhead power lines that traverse the site. Segregation of waste vehicles and other users of the site has, for reasons of safety, also been an important design driver.

In appearance the buildings and external equipment are considered as a whole and a palette of materials and colours developed accordingly. A significant planting scheme is also an important part of the proposal.
Acatel-Lucent is a world-leading manufacturer of undersea telecommunications systems, this project refurbishes and extends their facility on the Greenwich peninsula, transforming the quality of the production, clean room and office spaces and adds a new reception and café area.

The investment strengthens Acatel-Lucent- Lucent’s global technical lead and assists in attracting and retaining the highest quality staff. Much of the production is carried out in tightly controlled clean room conditions by highly skilled technicians.

Key criteria include improving the first impressions of the facility, creating a café/meeting space as a new heart to the building, show off Acatel-Lucent’s capabilities to visiting customers using the “housing” process as a key demonstration area, create new open plan office spaces linked to the heart space and reduce energy and other in-use costs.

The external appearance of the whole building will be transformed with increased areas of glazing, a timber glulam structure combined with aluminium bris soleil is a particularly exciting figurative element added to the Western frontage.
A new Refuse Collection Facility for the Borough of Milton Keynes. The project comprises offices, meeting rooms and welfare facilities for 240 staff, an eight-bay refuse vehicle maintenance workshop including VOSA test bay, and parking, fuelling and washing facilities for over 80 vehicles.

The brief poses a number of challenges, the most important being safety given the number of vehicle movements. Our solution involves physically separating HGV and car traffic, and providing zoned, demarcated pathways to allow site operatives to safely access all the facilities.

Whilst the brief did not require BREEAM assessment, environmental awareness was implemented throughout the project. One, particularly innovative solution involved the two existing 40,000 litre water tanks in the middle of the site which had to be retained to supply the fire suppression system in the adjacent Materials Recycling Facility. As the MRF was required to drain the tanks every two weeks to avoid legionella build-up, CPMG obtained agreement to use the tanks as the water supply for the Depot’s vehicle wash area, putting to use water which would otherwise have been wasted.
A world class precast concrete manufacturing facility, part of Laing O’Rourke’s Explore manufacturing business. The facility includes a 25,000m² production area, concrete batching plant, civils yard with gantry cranes, materials delivery / storage area, finished product storage yard with gantry cranes, trailer park, along with supporting auxiliary facilities, including a substantial office building, gatehouse, despatch ticket offices, welfare units and parking areas.

The production facility houses the state of the art production equipment much of which is automated and is serviced with overhead cranes. Welfare facilities are provided in five pods, manufactured off site and delivered as finished units.

Adjacent to the production facility is a 3850m² three storey office welfare building which provides changing and welfare facilities along with canteen, open plan offices, meeting rooms and training facilities. An enclosed glazed viewing area provides extensive views across the manufacturing process and an open balcony allows the user to experience the atmosphere as well as the views.
CPMG is working with Arup to prepare a strategic assessment of the GlaxoSmithKline plant at Coleford, in the Forest of Dean. The plant is a legacy of the Beechams part of the business producing Ribena and Lucozade. Substantial investment is proposed over the next 15 years and GSK wants to ensure that there is a properly conceived strategic plan to back up their investment.

The proposals suggest a phased redevelopment, replacing individual production lines as they become obsolete until the entire production area is replaced. Key high value modern assets such as the bottle blowing plant and blends facility are retained and incorporated into the design.

The new facility will consist of a rational linear layout of production lines with improved flexibility of packaging and rationalised vehicle movements leading to improved safety and efficiency.

Adoption of a BREEAM Outstanding target for the facility ensures that sustainability is designed in from the outset.

Location: Coleford
Value: £40m
Working with International Engineering consultancy Arup, CPMG is developing concepts for a global standardised factory solution on behalf of Rolls-Royce to be known as “Facility in a Box” (FIAB).

The challenge is to produce a solution that is sufficiently flexible yet is cheaper than buildings delivered by current procurement processes in both Capex and Opex terms.

The project involves rigorous analysis of the actual requirements of Rolls-Royce manufacturing processes and then devising a solution that can accommodate different climates through variations in specification and hence is equally applicable in Rolls-Royce plants located in Derby, Virginia or Singapore.

Out puts include a fully costed specification for a 5000sqm factory, plus a presentation using video flythroughs developed by CPMG’s in-house visualisation team.

The design supports the Rolls-Royce brand across the globe through embodying and illustrating Rolls-Royce’s corporate values, approach to staff well-being and sustainability and brand identity.
Bombardier’s new testing and commissioning facility for Crossrail trains at Litchurch Lane site in Derby. Bombardier is manufacturing the new Aventra trains for the London Crossrail railways and this industrial facility provides them with the space to provide ongoing maintenance.

The Main Shop building is designed as an efficient and cost effective thermal enclosure for the testing, commissioning and sales activities taking place within. The twin portal frame structure is clad with insulated metal cladding to the walls and roof providing a robust, durable and low maintenance shell. The roof cladding incorporates walk-safe roof-light panels within the cladding providing high levels of day-lighting with minimal maintenance.

The two storey office element provides an efficient, light, hard-wearing environment for the users, integrated into the activities in the main ‘shop’.
CPMG’s client is contracted to deliver a comprehensive Waste management solution under the Private Finance Initiative. The project encompasses four sites in the Wakefield area. The largest is a waste processing “eco-park” occupying a 9ha former colliery site; it incorporates facilities to handle all domestic waste generated by the local authority in the Metropolitan area for the next 25 years.

The facilities include autoclaves, anaerobic digestion, materials recycling facility, composting, combined heat and power plant, household waste recycling centre and a visitors’ centre.

The buildings are of a simple low maintenance design but contain highly complex and innovative processes such as the use of an autoclave to sterilises waste prior to final sorting.
As part of the Wakefield Waste PFI project four HWRCs are required located around the Wakefield area. CPMG’s role includes feasibility studies assessing the potential of alternative sites and then full design services on behalf of operator Shanks and contractor Kier Infrastructure and Overseas.

Designs place a high emphasis on safety both for operatives and for the public. Vehicles are separated immediately on arrival and the public drive up a ramp to a raised platform from which the deposit waste downwards into skips. The HWRC is covered by a tented structure that keeps waste and public movement areas dry, this has benefits for public safety and for future recycling of waste.

Lighting is unobtrusive and bunds and planting minimise visual intrusion.
A series of projects producing new highways facilities for Nottinghamshire County Council to improve the standard of maintenance and quick response to highways and weather related incidents across the County.

This particular project is the development of a complete new site near to the A1 in North Nottinghamshire.

The project comprises a garage for parking and with bays for the servicing the fleet of Council gritting lorries, with ancillary accommodation including offices, crew preparation areas and mess facilities, and also the provision of a new timber clad slat barn to accommodate 5000 tonnes of road salt.

A simple palette of materials is used to provide attractive and cost effective structures which are robust and easy to maintain or repair. The external site area also includes the provision of a wash-down area to clean out the gritting lorries, extensive concrete and tarmac hard-standing areas for parking the fleet of vehicles.
The AR&O Building comprises 20,000sqm of workshop for the repair and overhaul of aircraft engines, 800sqm of shop support offices and a separate 3 storey 3000sqm office building.

The buildings are constructed using a steel framed structure clad with insulated composite wall panels and grey tinted glass strip glazing with aluminium bris soleil. The roof is a curved aluminium standing seam insulated type.

Entry to the building is via a fully glazed curtain wall screen leading to a tiled and carpet finished ‘street’ area at ground floor which forms a visual link between support areas and where the value is created in the workshop. Vending and seating areas provide break-out areas for employees.

Additional support accommodation includes plant rooms, lockers, toilets, and first aid, meeting and conference rooms. Staircases at each end of the street provide access and escape to all floors and a lift is provided adjacent to the main entrance area.

Within the workshop a first floor mezzanine level provides shop support services such as additional training rooms, union office, mess room and toilet accommodation. Access is via lift or staircases.

Location: Derby
The building includes 11,475sqm of production space for the combustion components of aircraft engines, plus 1,000sqm of gantry areas and 1,555m² of Office Area and support facility areas.

Car parking for 200 cars, including disabled spaces and covered areas for 30 cycles and 20 motorcycles is provided to the site.

Entry to the building is via a lobbied entrance foyer leading to a tiled and carpet finished entrance providing a visual link into production areas.

The two storey offices are accessed from the entrance area. Support accommodation includes plant room, lockers, toilets, first aid, meeting and conference rooms.

A lift is provided adjacent to the main entrance to access upper floors.

The offices comprise open plan and cellular office areas, meeting, conference rooms, and plant. All floors are provided with raised access floors to provide flexibility in servicing.

The building is constructed of a steel framed structure clad with insulated composite wall panels, grey tinted glazing. The roof is a curved aluminium standing seam insulated type.
A series of buildings at Sherwood Business Park for Promotional Logistics, the buildings provide a packaging and distribution service for a number of high profile clients across the UK.

Prolog 3: 6500m² of warehouse at level I with 4350m² of office accommodation at level II

Prolog 4: 1840m² of warehouse at level I, 2,825m² of production area at level II and 2,240m² of production and offices at level III

Prolog 5: 12,000m² of warehouse and 5,000m² of production space at level I and 2,800m² of office accommodation at level II.

The Buildings are constructed using a built up cladding on the roof and side walls with insulated composite modular wall panels and powder coated aluminium ribbon windows.

Warehouse spaces were designed with a minimum of 12m to eaves and flat floors suitable for fork lifts.

The tenant requested that entrance areas should have a special enhanced design treatment. The foyer therefore includes a concrete spiral staircase with stainless steel handrails and high quality marble tile floor finish. The facade to the main entrance is identified by its full height curtain wall cladding.