



consultancy services



global vision ■ local knowledge



A WORLD OF EXPERIENCE



- A UK CONSULTANCY

introduction

For over 60 years we have successfully delivered numerous physical and social infrastructure solutions, and engineering design projects to our clients in over 100 countries in Africa, Asia, Europe, Latin America, Middle East, the Caribbean, and the Pacific.

Our dedicated and experienced staff are key to the successful delivery of the services we provide. As a result we have earned an enviable reputation for innovation, efficient and cost effective design solutions and project delivery.

Our mission is to be a multidisciplinary consultant of choice, recognised for the excellence and effectiveness of our services. We offer experience, rich heritage and world-class skills, supported by our specialist knowledge, quality and safety systems and understanding of the built and natural environment.

Our Vision is to exceed the expectations of all our stakeholders and to be at the forefront of consulting excellence.

Our independence ensures a personal business relationship with Clients. We recognise that the key elements of service include:

- Sound technical knowledge of the services involved
 - A high level of co-operation, co-ordination and communication with both Client representatives and end users
 - Fast and effective response
 - Development and implementation of cost effective solutions to the diverse problems that may be encountered
 - Ensuring that all works are carried out to programme and within budget
 - Maintaining the highest standards throughout the project life time
 - In-depth understanding of complex specifications and project environments
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who are we?

An independent organisation founded in 1952, Roughton has built a reputation for efficiency, value for money, innovation and timely project delivery.

Excellent client relationships and long term fostered business partnerships worldwide have made Roughton a unique brand.

In the UK our public sector client list includes numerous NHS trusts, local authorities and ministries. Banks and major construction contractors are found amongst our growing private sector list.

Further afield, Roughton has successfully delivered projects funded by all the major IFIs. Projects include an urban development project in Lagos in Nigeria, asset management projects in Uganda, development of the Jamaica Inner City Basic Services, Institutional Strengthening projects for the Frontier Highways Authority of Pakistan, the China to Europe highway in the Republic of Kazakhstan, various infrastructure projects in India, Sri Lanka and over 100 other countries.

We are providing Transaction Advisory services on PPP and PFI projects for several governments and private developers in a number of countries including Georgia, Nigeria and India.

From undertaking the smallest bridge inspection to providing expertise on the largest and most complex infrastructure projects, we will provide the same level of professionalism and client care ●



sectors

buildings and infrastructure

We provide a full range of in-house buildings expertise including structural engineering, building services and quantity surveying.

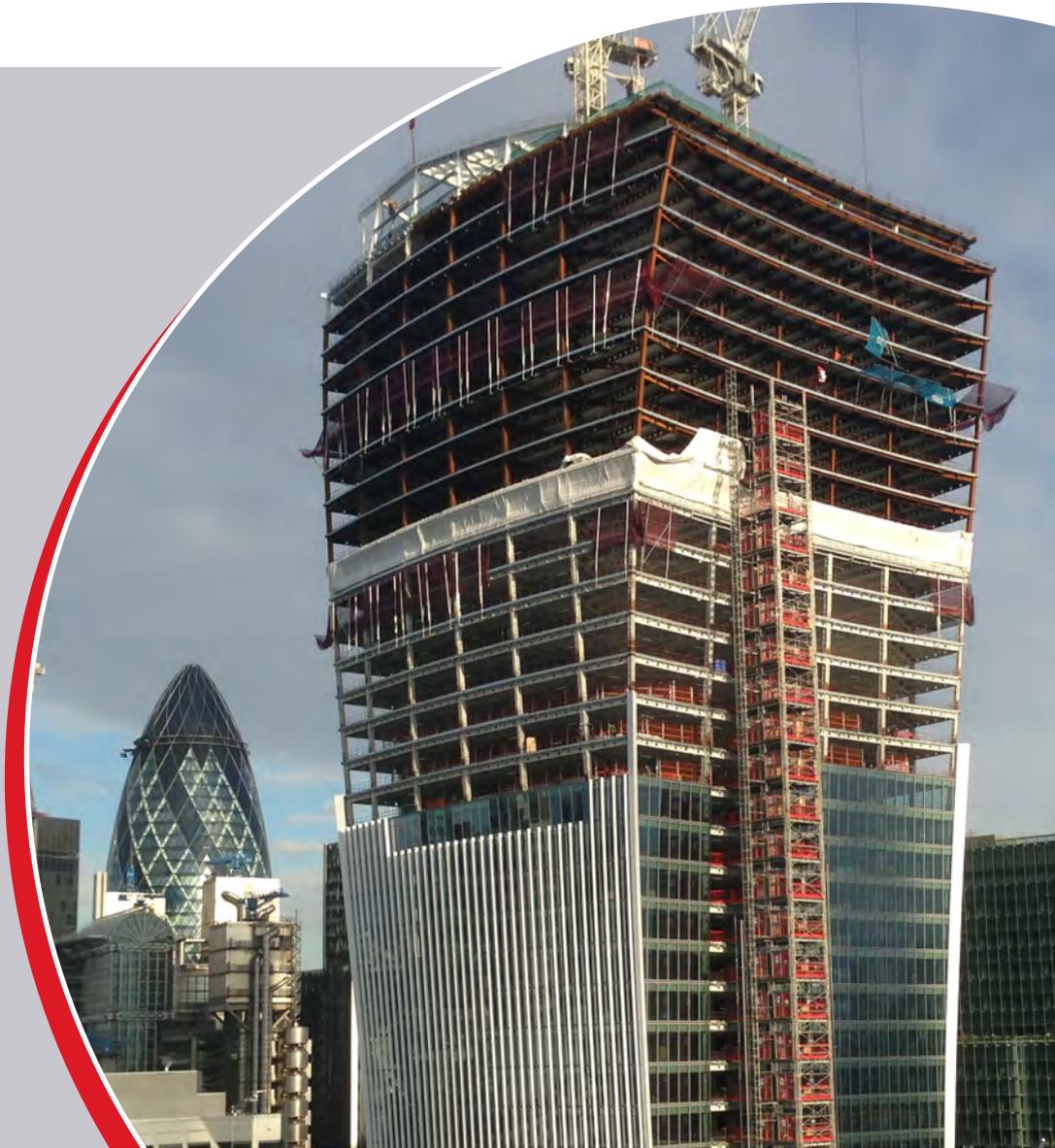
A significant proportion of our buildings workload is comprised of public sector clients such as local authorities and ministries.

We have particular understanding of the special requirements of the health care sector for environments and engineering services which do not put patients or staff at risk. We are familiar with the regulations applicable to laboratories, operating theatres, medical gases and complex hospital environments. We also have a track record in projects for residential care, health centres, clinics and outpatient departments.

In partnership with other consultants we provide input to the preparation of Private Finance Initiative (PFI) bids, and feasibility studies for DBFO and BOOT projects. We understand the nuances and needs of local authority developments in obtaining private funding.

Our international experience in social housing encompasses projects with wide variations in design requirements and socio-economic impact, including refurbishing inner-city apartments in the UK, upgrading squatter settlements in Malawi and rehabilitating government housing in Bhutan. Our aim is to produce relevant buildings and infrastructure design using appropriate technology to produce a sympathetic environment for owners, users, and visitors.

Our approach to engineering project management means that a director is closely involved from the start of the project through to completion ●



sectors

environment, natural resources & energy

The debate over the degree to which human activities are affecting global warming still rages but at Roughton we are focused on practical realities, such as the consequences of the depletion of irreplaceable fossil fuels, the cost of inefficient energy use and flooding caused by inappropriate landscaping. Our services are therefore based on a practical, common sense approach. In doing so we also aim to benefit the local ecology and environment.

Roughton has a detailed understanding of the value of infrastructure relating to energy production, transmission and consumption minimisation. Our civil engineering expertise has delivered many major energy projects in the UK and overseas with core strengths in the power, nuclear and water sectors.

With energy production, the need for responsible use of energy arises. The combination of our sustainability consultancy services, energy market experts and building science teams means we can provide valuable advice to our clients regarding the most economic and efficient uses of energy. This often results in a more efficient and sustainable overall scheme design ●



sectors

water

A clean water supply is the single most important determinant of public health. Roughton has extensive experience of water development projects throughout the world in both developed and developing economies and provides specialist technical assistance at all stages of the project cycle.

Roughton offers a multi-disciplinary, fully integrated development approach to planning, design, operation and maintenance in the following areas:

- Water Supply
- Sanitation
- Surface water
- Flood Water



public private partnerships

Roughton has established a leadership position in developing countries with the breadth and depth of experience generated within the company.

Roughton's PPP and PFI expertise areas include highways, rail, aviation, port, water, health and education sectors. Services range from project inception, including planning and strategic financing, through the design and construction, and operations and maintenance stages.

PPP consultancy is among the core services available to our clients including; national, regional and local governments; transport authorities; public organisations such as health and education authorities; and private companies.

Roughton's success lies in its ability to innovate continually across the full range of its PPP consultancy activities. Roughton has a track record of leading and delivering PPP advisory services with widely differing degrees of complexity from small project finance transactions to large, complex projects ●



sectors

highways & bridges

Roughton provides a comprehensive highway engineering service encompassing project planning, design, implementation and operation within the UK, Europe and internationally for all aspects of road transportation and traffic management schemes including environmental and traffic impact assessments. Our experience includes the design and implementation of projects of regional and local importance, taking account of the preparation of complex traffic management schemes.

Our road experts work as a team with a holistic approach that identifies innovative ideas at the early stages of a project. Our appropriate design software and approach ensures accuracy and, with project management skills, provides cross discipline collaboration where we typically demand cost effective sustainable solutions to meet our client's goals and aspirations.

Extensive project experience in developing countries with a range of bridge designs enables us to determine cost-effective solutions appropriate to the use of the bridge, its location and the experience of the constructor. The design and materials specifications will be appropriate to the level of supervision anticipated.

Our expertise includes:

- preparation and management of a bridge inventory
 - bridge inspections
 - prioritising a maintenance works programme
 - management and supervision of maintenance and construction work
 - bridge assessment for structural integrity and load capacity
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transportation & transport planning

An efficient, sustainable and environmentally sensitive transport system is vital to the functioning of any community. Roughton has extensive experience of transportation development projects throughout the world in both developed and developing economies and provides specialist technical assistance at all stages of the project cycle.

Roughton offers a multi-disciplinary, fully integrated development approach to planning, design, operation, supervision and maintenance for rail, roads, bridges and structures ●



sectors

rail

Roughton engineers have a sound knowledge of the issues and limitations of the railway environment.

Rail projects create a range of unique challenges which are well understood by our economists whether for mainline (freight and/or passenger traffic), commuter or mass transit systems (heavy or light rail). We have the resources and experience to develop practical and cost effective planning solutions for all types of main line railway including upgrades and new lines.

Roughton has the capability to review and analyse a project's financial and commercial feasibility and funding requirements; to provide bid documentation and evaluate commercial bids; to advise on the raising of finance; to participate in the negotiation of financial loan agreements and commercial contracts; and to conduct monitoring and supervision of a project during the construction stage.

Roughton is proud to be playing a key role in the revitalisation of Nigerian Railways which will become a key driver in support of economic growth.

The company is ambitious to expand its professional services offering in the rail sector and is currently exploring a number of further opportunities both in the UK and overseas.

Internationally we are focused on building on our local presence in Nigeria, Africa, Eastern Europe and Asia.

We have an extensive data base of in-house resources, partners and associates allowing us to offer a comprehensive range of services to all our rail clients.

Roughton has been providing services to the rail sector in the UK for many years, particularly to London Underground Limited (LUL). In 1991 Roughton was awarded a two year commission for civil engineering services by LUL and has been providing technical assistance as an approved consultant ever since.

Since 1991 approximately 1000 commissions of varying types and sizes have been completed successfully for various clients. Services provided include:-

- Structural assessment and inspection
- Geotechnical investigations
- Track drainage schemes
- Civil and structural design
- Construction supervision



services

- Air quality
- Asset management
- BIM
- Bridge engineering
- Building services
- Building surveying
- CDM coordinator
- Civil engineering
- Construction supervision
- Contract administration
- Due diligence
- Drainage design
- Economic feasibility
- Energy efficiency
- Environmental impact
- Expert witness
- Facilities management
- Feasibility studies
- Flood risk assessments
- Geotechnical investigations
- Highway engineering
- Hydrological studies
- Infrastructure design
- Intermodal appraisal
- Landscape architecture
- Masterplanning
- Pavement engineering
- Planning
- PPP & PFI
- Programme management
- Project management
- Public health engineering
- Quantity surveying
- Rail engineering
- Risk management
- Secondment of professional staff
- Structural engineering
- Transportation planning
- Water
- Wastewater



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