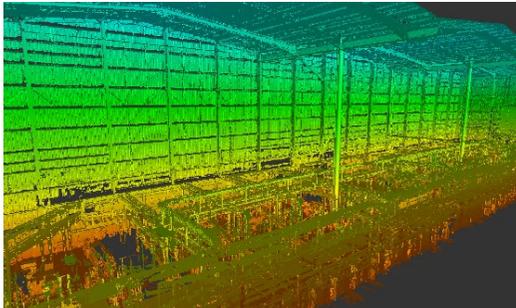
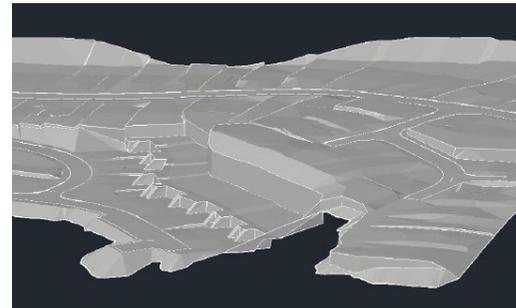
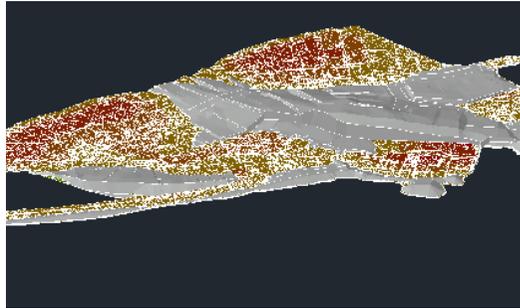


ADEPT

CIVIL AND STRUCTURAL CONSULTING ENGINEERS



RECRUITMENT BRIEF

Senior Civil Engineering Technician

LEEDS



This is an exciting opportunity to join a dynamic, strongly established civil and structural engineering consultancy with an excellent reputation for the delivery of complex and specialist projects.

Adept was founded in January 2007 by business partners Erol Erturan, Richard Parker and Matthew Ramsden. Neil Brown joined in 2019, followed by Paul Gill and Gareth Shepherd in 2021 as Directors of the company.

We have a 'hands-on' Director led approach to carefully manage progress on every job and collaboratively develop solutions with the team which **maximises value**.

We are customer focused and know how to **listen** well and collaborate with clients, stakeholders and third parties, which is why **80% of our work is generated from repeat business**.

Highly responsive, we employ the best staff who work collaboratively to Engineer Better Together using the latest technology to deliver innovative best value civil and structural solutions on time.

Our expert teams focus on delivering high quality customer services and high value returns from our offices in Leeds, Sheffield, Manchester and London.

Our Sectors:

- Commercial
- Distribution
- Education
- Energy
- Extra Care
- Food Processing
- Healthcare
- Hotel & Leisure
- Listed buildings
- Residential
- Retail
- Warehousing



Our Services

Our mission is to provide high quality civil and structural engineering services to our clients within the construction industry. Our specialist areas of work include:

- Preparation of conceptual schemes
- Detailed designs and drawings of foundations
- Superstructure
- Drainage
- External works and highways for new build and refurbishment projects
- Building Information Modelling (BIM) including providing data rich 3D models
- Structural surveys and reports for existing properties
- Desktop studies, flood risk assessments, site investigations
- General civil and structural advice
- Feasibility studies
- Project management and lead consultant services
- Laser point cloud surveying
- BIM consultancy, converting laser point cloud to BIM

The Opportunity

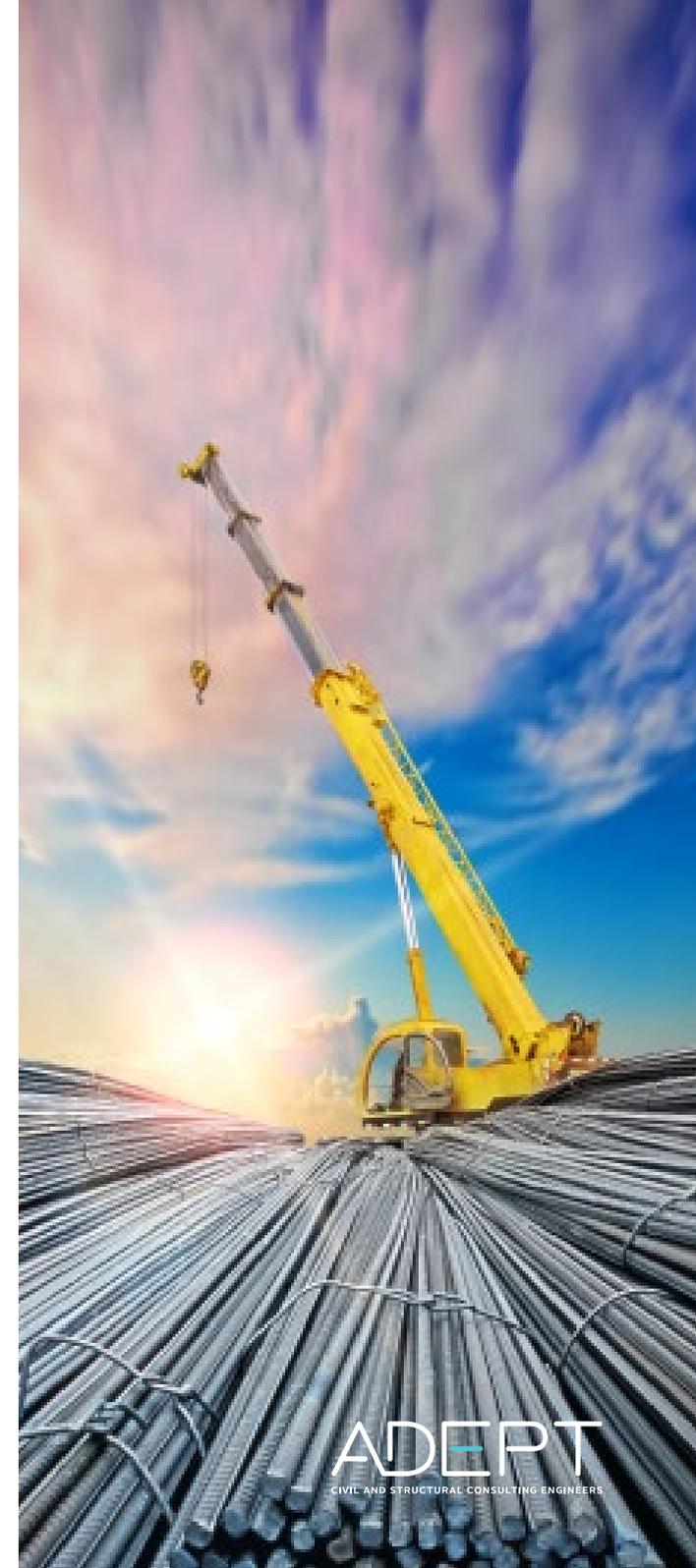
We are looking for a conscientious Senior Technician with excellent commercial awareness. The role is suited to someone who is enthusiastic, knowledgeable about the technical detail of how infrastructure and other civil engineering projects are designed and constructed. You will work as part of a positive and passionate team to provide the very best service to our clients

THE PERSON

- You will be a key member of the team reporting to and working alongside the Project Engineer to ensure the delivery of outputs to meet the Clients brief. You will have the technical skills that will allow you to be confident in your position and will be able to work both under your own initiative and as part of a team to suit both the size and complexity of the Project
- An analytical and detailed approach to work
- Knowledge and understanding of the principles of Building Information Modelling (BIM) and a logical approach to problem solving with the initiative and determination to complete tasks
- You will have an HNC and/or 3 years minimum post qualification experience. You will be able to demonstrate experience of working in a similar role
- A high level of technical awareness in relation to highways, drainage & earthworks modelling
- Excellent problem-solving skills
- A full UK driving licence would be beneficial but is not essential

QUALIFICATIONS, SKILLS AND EXPERIENCE

- Developing engineers' sketches and design output towards full technical approval & construction drawing packages within the following categories
 - » S104 Drainage Packages
 - » S38 Highway Packages
 - » S278 Highway Packages
 - » Private Drainage Packages
 - » External Works / Levels Packages
 - » + Other section agreements on a variety of schemes types
- Strong communication skills with the ability establish and maintain good working relationships with clients and colleagues
- Have a good working knowledge of
 - » Civils 3D (Essential)
 - » Navisworks (Essential)
 - » Site 3d (Desired but not necessary if there is a willingness to learn)
 - » Microdrainage (Desired but not necessary)
- Carry out the modelling of vertical and horizontal road alignments and Foul and Surface water drainage systems to comply with Local Authority, Water Authority and LLFA requirements
- Be able to develop construction details, sections, etc
- Liaise with the Project Engineer and wider design team on issues requiring clarification or external input
- The ability to work on a wide portfolio of projects across all sectors simultaneously whilst managing your own workload and achieving key deliverable dates
- You will have an HNC and/or 3 years minimum post qualification experience. You will be able to demonstrate experience of working in a similar role.
- Engtech with the ICE (or willingness to work towards with full support)



The Role

The role is office based with occasional visits to construction sites. The post is within the Adept civil engineering design team which is responsible for the design of highway and drainage schemes for commercial, industrial and residential developments.

The ideal candidate will be experienced in overall drainage and highway design and will have a minimum of three years experience in a similar role.

OBJECTIVES AND KEY RESPONSIBILITIES

- Preparation of high quality drawings and details for varying civil engineering projects for residential, commercial and industrial developments
- Liaising with clients, contractors, architects and other members of the design team on a regular basis
- Organising and maintaining incoming and outgoing project documentation
- The completion of designs for External works and levels, S104 drainage agreements and S38/S278 Highways agreements among other Section agreements on a variety of schemes
- Attendance at site or other meetings with one of our Engineers or Directors to complete surveys, attend design team or site meetings may be required
- Producing drawing and model packages within defined project time scales
- Producing residential, commercial, industrial, road and drainage proposals for various developments
- The role will offer you the opportunity to progress through your professional career becoming a key member of the team in the Leeds Office



Digital Innovation

We understand that Building Information Modelling (BIM) is key to our industry's shared future. We see this as self evident and have modelled our business around this

We are a forward thinking, technologically advanced company and use the latest tools to deliver our projects, resulting in increasing productivity, efficiency and better service to our customers. Despite our extensive experience, we are always looking for new and innovative ways to improve and develop. Exploring new software and processes are part of our working day. Our staff are continually encouraged and inspired to implement cutting edge solutions.

Our focus and expertise in BIM is rather unique. Having achieved BIM Level 2 accreditation in 2015 we became the first civil and structural engineering consultancy in the UK to receive such an award. This validated our advanced capability in modelling, analysis exchange and process maturity beyond compliance with UK standards, and we haven't stopped progressing.

We embrace trust based collaboration and recognise that working together creates benefits far greater than the sum of its parts. Clients, staff and design partners have gravitated towards this approach and the positives have been numerous.

Reduced rework, clash detection on site, intelligent data exchange, improved accuracy and greater transparency are just some of the quantifiable benefits we continue to share.

At the end of our projects all parties are more knowledgeable, experienced and better equipped for the future and we see this as a great achievement. We openly share knowledge, models, processes and ideas and actively encourage our clients and sub-contractors to do the same.

Adept's attitude to Digital Innovation has been our unique selling point since our early days. BIM is integral and fundamental to the delivery of all our projects. There are no exceptions, it just makes eminent sense.

In practice we go beyond what is traditionally seen as BIM for Civil/Structural Engineers and routinely deploy our Laser Scanner, UAV and VR equipment.

All of our models are workshared for data segregation, most contain analysis data and other intelligent features beneficial to the digital twin envisaged for the lifecycle of the facility. This is our modus operandi. Our current interests lie in mesh feature recognition from point clouds, LEAN processes and practical Virtual Reality.

We are members of Cyber Essentials Plus, a government backed cyber certification scheme.

For project delivery Adept uses a wide (and often changing) array of technical software, bespoke solutions and modules.



The Growth of Adept

Over the years we have invested a significant amount of time and money into the development of our business, BIM and staff training. Growth and evolution is key to the success of Adept

Turnover, profit, overall growth and client diversification have been very positive over the past few years.

2020 Covid Curveball

Despite the difficult times during 2020 we have managed to maintain turnover, win places on three important public sector frameworks and secure some significant new clients. Like many small businesses our short term goals have been pushed back to 2021, but our long term goals remain the same.

Crucially, we have made some significant staff appointments this year, welcoming a new Associate in Manchester and a Regional Director in Leeds. We also opened a new satellite office in Sheffield. These changes have secured our stable position in the market place as one of the leading engineering consultants in the North, and will bolster our efforts to grow the business.

Subject to work winning, we will require further staff to support our leadership level staff and ensure we continue to resource projects accurately.

Our long-term plans include the diversification of Adept's services to include project and information management, lead consultancy and geo-environmental site investigations, including setting up associated companies with motivated key individuals.

We plan to appoint a Director in London in 2021 as part of our long-term growth strategy. The Leadership Team will become

key in sustaining our business growth and in mentoring their teams.

Previous Performance

2018 was our most successful year to date and we recruited more staff than ever before.

Our turnover increased 25.5% in comparison to 2017, staff numbers increased by 13% and we won a prestigious award from the Institute of Structural Engineers.

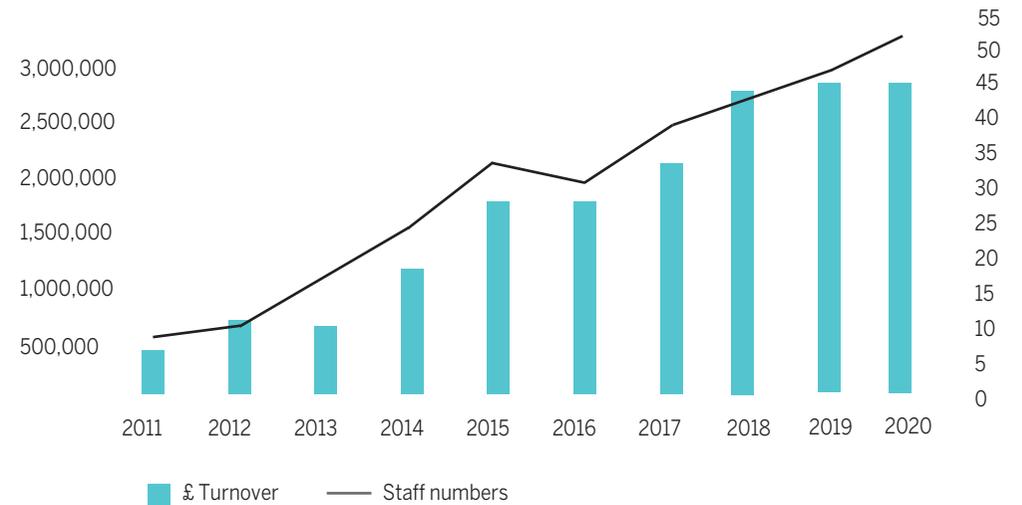
The award, the **Best Medium Sized Structure of 2018** (Yorkshire Regional Group – Medium Sized Business), for the prestigious £9.5m Ridding Park Spa Redevelopment, recognised our holistic approach to achieve innovative solutions to technical problems in an efficient and sustainable manner.

We also secured our largest project to date, an **£89m re-development scheme with Henry Boot Construction. The Glass Works** is a major town centre development in Barnsley and is located on a 3.8 hectare site around Cheapside. The development is very significant for the region and will provide 590,000 ft² of entertainment facilities inclusive of shops, restaurants and a multi-screen cinema.

The Growth of Adept

Within our industry we are recognised for leading service excellence and professional development. This has created a loyal client base that continues to grow and diversify

Adept's Growth



Testimonials

“Adept have consistently demonstrated their ability to work with HBC and our partners collaboratively providing innovative, sustainable and **cost effective solutions.**”

Phillip Lambourne, Design Manager
Henry Boot Construction

“Adept are honest, **efficient**, and **professional**. Well organised, detailed in their document management, and most importantly, **proactive in their approach**. Any design queries are identified early and resolved in a **collaborative** manner to maintain the momentum of the project.”

Richard Elam, Director, Evora Construction Ltd

“I have always found the team **extremely helpful** and willing to explore solutions that will **benefit the designers and the client**, both in programme and cost terms.

Andrew Southey, SDA Architects

“ I find it important to have a **Director level point of contact** which speeds up decisions and any resolutions. I have consistently found Adept to work in a collaborative, **honest** and professional manner which makes them a pleasure to work with.”

David Stanway, David Stanway & Associates

“Adept’s **service is unparalleled**. Well-staffed at all levels, approachable, proactive and responsive on all construction schemes and sectors”

Michael Bickle, Director, Michael Eyres Partnership

“Adept always meet programme deadlines and also allowed cost savings to our client at the design stages, without the quality being compromised.”

Helen O’Reilly, Associate Architect, Bond Bryan

All engineers involved in the project had an **excellent attitude**, were very respectful, **understanding** and their professionalism was exemplary. An outstanding advertisement for your company.

Eamonn Cahill, Senior Project Manager,
Tilbury Douglas

“The team are very **proactive**, with a mindset to help and are willing to do the necessary levels of work to ensure full, concise information is provided.

Staff are friendly and welcoming with a **good attitude** towards a team ethos. It is refreshing and enjoyable to know they are part of the team structure for a project.”

James McDermott, Director, KPP Architects

Adept’s practical and pragmatic approach, together with their team ethos ensured that the design developed smoothly and effectively.

Working in **Revit was an invaluable part of the design** process in ensuring the team collaborated and developed a successful design.

Pauline Lake, Director, Race Cottam

“The Adept team are very knowledgeable and helped us to identify an economical solution for the cut and fill and advised on the complex retaining structures. ”

Louise Marsden, Project Manager, Rochdale Borough Housing



Why consider this opportunity?

BENEFITS

Our Leeds office is a high quality office space in a restored mill situated on the historical Farsley Town Street.

This is an exciting opportunity to join a forward thinking company. We are offering a competitive salary which is dependent on experience. We are also offering a range of benefits inclusive of:

- a contributory pension
- healthcare scheme
- free on site parking
- paid professional membership fees
- 25 days annual leave (in addition to bank holidays)
- tailored training opportunities
- opportunities to attend a range of employee social events
- a discretionary profit and performance related annual bonus up to one month's salary
- £100 birthday bonus

The successful candidate will be working with a highly motivated and committed team who successfully deliver an interesting and broad range of civil and

structural engineering projects, within sectors such as healthcare, education and residential.

Our office is a friendly and supportive working environment. Our 93% retention rate and annual appraisal staff feedback demonstrates Adept's employee satisfaction.

We genuinely believe in the benefits of providing a pleasant working environment where staff are respected, informed and given opportunities to better themselves.

We have a Social Committee who organise and run regular social events every year. Recent events have included the Tough Mudder Challenge, an American pool tournament, a bowling tournament, a Krypton Factor Challenge, a team building weekend away, a virtual golf tournament, a casino night out and monthly sponsored pub outings.

Our dedication to valuing and nurturing our employees has been recognised by Investors In People.

Adept is an Equal Opportunities Employer

Industry Recognition and Accreditations

We are proud of our accreditations which represent industry recognition of our expertise, service delivery and exceptional standards.



Our clients

CBRE

caddick
construction

ASDA

Sheffield
City Council

ENGIE

FIBRWRAP®
The Future of Construction Technology



communities

Tilbury Douglas

POST
OFFICE

QINETIQ

KIER

parklane

Henry Boot
CONSTRUCTION

ISG

next

UNIVERSITY OF LEEDS

YPP

NEWCREST
NEW COMMUNITY REAL ESTATE

REDROW
HOMES

Roomzzz
Aparthotel

Sir Robert
McALPINE

Town
Centre
Securities

BREWERS SINCE 1807
THWAITES

Wates

Vistry
Partnerships

WILLMOTT DIXON

Investors In People



Adept Consulting Engineers have achieved an Investors in People accreditation. Here are just some of the comments from the IIP Assessor:

“Adept Consulting Engineers has some great foundations in place with regard to best practice and this is commendable for a company of its size. In particular **the** culture of collaboration and professionalism, especially when some of the employees are young, is excellent.”

“The company motto ‘Engineering Better Solutions Together’ describes a truly **collaborative way of working** whether that is internally between colleagues or externally with stakeholders such as clients or contractors or even the wider community through the CSR work undertaken by the organisation.”

“The directors are held in high regard by employees who have confidence in the business being taken in the right direction. There is clarity of vision, purpose and objectives and **people** trust that the leadership team will take the business forward.”

“Innovation as a thought process is regarded as being ‘part of the DNA’ of the business and a catalyst for change. **The business is** quick to adopt new technology where ever financially viable and regards this approach as a necessary part of its growth strategy.”



The Adept Culture and Team

We know that a happy workforce leads to increased morale, productivity and efficiency

CULTURE AND TEAM

Our culture is based on being entirely staff and customer focused. We invest in tailor made training programmes (apprenticeship schemes, degrees, software and technical training and sales and management training) for our staff, to help them develop and progress in their career. Our staff have a wealth of experience, talent, skills and industry knowledge.

Our staff have taken part in a number of charitable events over the years, to raise money for different charities including Action Medical Research and Barnados:

- Yorkshire 3 Peaks
- York Cycling 100km Route
- Windermere 20 Challenge

A number of staff also provide 'volunteering days' to Lineham Farm Children's Centre in Leeds (who aim to enhance the lives of local children by organising respite breaks and holidays) to help out with improvements to the facilities. All Adept staff are provided with two days paid volunteering leave per annum.

Adept promotes social responsibility, growing our own talent, and promoting engineering and construction to young people.

APPRENTICESHIP SCHEME

Adept runs a successful Apprenticeship programme, employing students from Leeds College of Building and Barnsley College. Every year new apprentices are recruited and developed, enabling them to learn and thrive.

We are proud of our ability to support the engineers of tomorrow and have employed at least one apprentice every year since 2008.

Nine members of our team have come through this route, and we continue to support Higher Apprenticeships to degree level. Our very first apprentice is now a senior engineer, having graduated from a university degree funded by Adept, and is now running his own complex scheme. A number of other Adept apprentices are currently studying at university.

EXECUTIVE TRAINING

Management training is offered through a number of professional organisations and business mentors who we have developed strong relationships with over the years. We draw upon their qualified experience to reflect on our methods and guide our business development strategy forward.

Our continued involvement with the Goldmans Sachs 10KSB scheme, gives access to a variety of leadership level training and development courses.



ADEPT



EROL ERTURAN | MANAGING DIRECTOR
BSc, MSc, CEng, MStructE, MICE

Erol is a BRE Accredited BIM Professional with over 25 years in the industry. He is an experienced Chartered Civil and Structural Engineer with hands on experience in the design and project management of multi-storey steel and concrete framed buildings, large warehouses and major refurbishment projects.

Erol set up Adept in 2007 and the organisation has grown over the years and now employs 40 staff. Erol has a very 'hands on' approach to projects and specialises in client liaison, management and co-ordination of projects from the very early stages to completion.

Client testimonial:

"I have worked with Erol and his team on a number of occasions and have always been impressed with Adept's quality of work and professionalism. I would not hesitate in recommending Adept to new clients."

Chris Austin
Director, Brewster Bye Architects

EXPERIENCE

NEXT Warehouse, Doncaster

Value: £55m

Client: Next

New automated warehouse with 60,000m² footprint and 8,500m² offices plus a link bridge to an existing warehouse

- Adept were responsible for both the concept and detailed design for the project situated at IDI Gazeley's 115 acre G Park.
- A steel structure was the ideal solution for this build, as it was quick to construct, cost effective and accommodated the long span qualities needed
- Adept engineers designed flexibility into the steel frame so that it not only meets the demands of the business now, but there is flexibly for further expansion in the future



Gateway House, Piccadilly Station, Manchester

Value: £20m

Client: Marshall Construction

Mixed use development to include the transformation of Gateway House into a hotel together with a new 40,000 sq ft office block over 8,000 sq ft of retail space

- The strategy for the refurbishment was one of conservation rather than reconstruction. The building was stripped back to its existing concrete structure and reload to meet current envelope requirements whilst retaining the horizontals and fine grain of the existing fenestration
- The new structure is generally steelwork beams craned in to trim new openings in the existing RC structure. Simplicity and economy were the main requirements overall.



Drax Biomass, Selby

Value: £10m

Client: Drax

Biomass conversion facility. The construction of the domes was achieved through the application of air form technology that utilises an inflated PVC membrane permanent shutter which is sprayed internally with shotcrete

- Close liaison with the U.S. based engineering and construction team was achieved through the creation of clear lines of dialogue which were maintained throughout the build
- Feedback from Dome Technology recognised the efforts of Adept's engineers to neutralise barriers which existed due to differences in the cross continental standards and procedures.



ADEPT



RICHARD PARKER | DIRECTOR
BEng (Hons)

Richard is an experienced Civil Engineer with over 20 years experience in the construction industry. Richard specialises in feasibility studies, drainage, highway design, ground modelling and flood risk assessments and generating new clients.

He has extensive experience in the design and project management of all civil works including external works/ highway design and Section 38/102/104, agreements for adoptable works and Health and Safety (including CDM regulations).

His responsibilities include running large and medium scale projects from conceptual design stage through to completion.

Client testimonial:

"Adept Consulting always offer STG proactive advise Pre tender and the extend this professional approach throughout the construction process I would recommend Adept and Richard Parker for future works."

Andy Coates
Construction Director, Strategic Team Group
(Park Road)

EXPERIENCE

GEFCO, Liverpool

Value: £10m

Client: Marshall CDP

New purpose built £10m state-of-the-art supply chain hub. It is now helping to optimise supply chains for a number of GEFCO's customers including Jaguar Land Rover's Merseyside factory in nearby Halewood.

- The construction of a 132,000 sq ft warehouse with two-storey integrated offices, as well as a 50,000 sqft warehouse with two-storey integrated offices
- Works carried out on the 12m high warehouse included design of the steel framed buildings with pad foundations on improved ground.
- External works involved cut and fill analysis which was lime stabilised to provide a suitable piling platform. Drainage was attenuated



New Lodge Extra Care Village, York

Value: £20m

Client: Joseph Rowntree Housing Trust

Facilities for retired living comprising 105 one and two bedroomed Extra Care suites and 45 one bedroomed residential care suites, as well as useful community facilities

- The new buildings have been modelled using 3D software which has been used to generate 3D views to aid co-ordination with the site and design team.
- The size of the development site has required the design for a large volume of surface water storage which has been accommodated by a 90m long Tubosider storage pipe positioned to suit a narrow corridor of available space on the site.



Park Road, Telford

Value: £9m

Client: Wrekin Housing Trust

81 unit affordable housing development for main contractor STG

- Civils 3D BIM technology was used to undertake a successful cut and fill exercise.
- The scheme was built over a former colliery leading to a difficult and challenging pile and foundations design.
- Colliery spoil deposits unsuitable to bear traditional foundation were found up to 5.2m depth. Therefore a total number of 658 piles was used as a foundation solution.



ADEPT



MATTHEW RAMSDEN | DIRECTOR
BEng (Hons), CEng, MStructE

Matthew is a Chartered Structural Engineer with 20 years of experience in the design and project management of residential, historical and educational schemes, multi-storey construction and refurbishment work. He has worked on a number of projects where additional protocols were required such as in working health centres, working schools (DBS checked) and rehabilitation homes.

Matthew is a very focused Director with experience in the design and project management of both large and small schemes. He is responsive to the client's needs and has a strong track record of gaining repeat work.

Client testimonial:

"Thank you for a most excellent and professional service. The work was within an extremely challenging environment within exceedingly tight time schedules and with several major constraints in a 100 year old Grade 1 Listed Building.

Matthew and his team had an excellent attitude, were very respectful and understanding of the project requirements.... Exemplary service - an outstanding advertisement for Adept."

Eamonn Cahill,
Senior Project Manager, Interserve Construction
(Kirkgate Market)

EXPERIENCE

Rotherham Interchange

Value: £12m

Client: : Sheffield Combined Authority

The upgrade and refurbishment of this important town centre asset will improve the concourses with upgrades to flooring, plinths and glazing

- Adept designed a steel beam solution to strengthen the platform, saving significant time and money.
- We were responsible for verifying that the structural stability of the building is not compromised by the revised cladding.
- Adept's BIM Level 2 capabilities have ensured smooth design solution progress throughout



Kirkgate Market, Leeds

Value: £12m

Client: Leeds City Council

Extensive refurbishment, significant roof works and new internal structures

- Major refurbishment to a Grade I Listed building required sensitive engineering
- Re-design of the original drainage system saved the client valuable time and money
- Provided condition surveys to both historical roofs
- Coordinated an analytical survey enabling Matthew to advise the council on remedial strategy.



North Lincolnshire Retail Park, Scunthorpe

Value: £25m

Client: Simons Construction

New build retail park including 50,000ft² of retail space to include M&S, Debenhams and Boots

- Complex civil engineering design was required to address the lack of surface water drainage
- Director level involvement facilitated the engineering of the largest fully sustainable SUDS system that Adept have been responsible for
- Challenges surrounding underground water tables and raising floors above flood planes were eliminated thanks to the expertise of senior level involvement



ADEPT



PAUL GILL | DIRECTOR
BEng (Hons) Civil Engineering

Paul is a highly experienced Civil & Structural Engineer with over 20 years' experience in all aspects of design.

Paul specialises in site due diligence, traditional load bearing structure design, concrete frame design and adoptable drainage schemes. With a 'hands on' approach to design, Paul's involvement on projects ensures all aspects of a development are addressed at the earliest possible stage. He manages complex, large and medium scale projects from conceptual design stage to completion.

Paul is managing the delivery of Adept's ASDA PFS Schemes. Adept have been appointed as the sole civil and structural engineers on a national programme to deliver 35 petrol filling stations worth approximately £30m including both new and retrofit schemes.

Client testimonial:

"Over the past 5 years whilst working for the Client/ Contractor we have appointed Paul's services to provide Engineering Consultancy on multiple complex schemes. I have relied on Paul to be the key contact and he has provided a proactive and professional service to assist the delivery of the schemes in a cost effective and timely manner."

**Stephen Lyons, Regional Technical Manager,
ENGIE Regeneration**

EXPERIENCE

Beeston & Holbeck, Leeds PFI

Value: £128m

Client: Leeds City Council

Extensive housing regeneration scheme to improve council housing in Beeston, Holbeck and Little London

- Development of 10 residential sites to include the refurbishment of 1,200 existing council houses and the construction of 388 new council houses
- Paul designed and developed the adoptable drainage systems for the schemes with developer and architect
- Specialised civil and structural engineering design was required due to the prior use of the site which included coal mining activities.



Bishops Hill, York

Value: £5m

Client: McCarthy & Stone

A 34 apartment retirement development scheme on the banks of the River Ouse

- The apartments benefit from a panoramic rooftop terrace and impressive landscaped gardens
- This site of archaeological importance required close liaison with third parties due to challenging ground conditions.
- New foundation solution and undercroft parking needed careful consideration prior to demolition of existing building



ASDA PFS and Car-park works, Gloucester

Value: Confidential

Client: ASDA

The construction of a Drive to Pay kiosk petrol filling station and customer car-park with associated facilities

- Throughout the project Adept were presented with a number of challenges. Drainage design issues arose due to the close proximity of a nearby river. Close liaison with the local Lead Local Flood Authority (LLFA) was therefore required, to reach an adequate design proposal to suit the ground conditions and local environment
- The scheme changed numerous times during the implementation phases. Adept seamlessly revised plans to meet the adjustments.



ADEPT



GARETH SHEPHERD | DIRECTOR

BEng (Hons), CEng, MStructE

Gareth has over 23 years' experience in a wide variety of building structures across all sectors, including industrial, commercial office, healthcare, heritage, residential, education, sports and retail.

Gareth is responsible for running project teams and coordinating resources on high value projects for high profile clients.

His experience includes structural design, management and construction supervision of both refurbishment and new build projects, as well as early site appraisals and feasibility studies.

Gareth is knowledgeable in the design of reinforced concrete, pre-cast concrete, steelwork, masonry, and timber structures.

Client Testimonial:

Gareth is skilled in providing creative input at the early concept stage of a project, collaborating closely with us and with the client to add value and create innovative, cost efficient, buildable designs.

A highly professional and personable engineer.

Andrew Cooper, Managing Director, RPP

EXPERIENCE

FlyBe Head Quarters and Flight Training Facility, Exeter

Value: £confidential

Client: FlyBe

FlyBe's flagship training headquarters provides first class aviation training facilities for pilots, cabin crew and ground staff, as well as apprentice engineers.

- The first phase included: a concrete frame reception and classroom wing, and a steel framed 'Sim Wing' designed with clean spans to house flight simulators, a trainee engineer workshop and emergency door trainer facilities.
- The scheme included its own **CHP centre** as part of the project, which considerably contributed to its BREEAM Excellent rating.
- Achieved through extensive use of SUDs and a flood alleviation scheme plus Passivhaus natural ventilation in the teaching wing of the building.



Spenn Valley Leisure Centre

Value: £15m

Client: Kirklees Council

Kirklees Council's new Swimming Pool and Sports Centre opening in 2021. The new facility replaces the existing demolished pool and is constructed on a constrained, challenging site.

- The facility included:
- An 8 lane, 25 metre main pool.
- An activity pool 20m x 10m with moveable floor.
- Spectator seating in the pool areas.
- Large gym and fitness suite, two fitness studios with flexibility for other use and a cycling studio.
- Two changing villages which will include family cubicles, baby change and large team changing areas



The Green, Bradford

Value: £30m

Client: University of Bradford/GB Building Solutions

This was a landmark project in the Sustainable Student Village based on campus. 1026 student bedrooms were split over blocks of apartments and townhouses constructed by prefabricated timber wall panel frames and floor cassettes.

- The scheme featured solar panels, rainwater harvesting, attenuation pond and CHP, and a highly efficient building envelope.
- It was purposefully designed and managed to encourage users to recycle and live more sustainably. Each dwelling has real time energy monitors and there are vegetable beds for the students to maintain.



Gateway House, Piccadilly Station

OUR PROJECTS



SUMMARY

Client

Marshall CDP

Location

Manchester

Project value

£20m

Architect

Building
Management
Services

Contractor

Marshall
Construction
West Yorkshire

Project brief

This mixed use project comprised the refurbishment of the iconic Gateway House into a 182-bedroom hotel above the existing ground level of retail (and basement level public car park) together with a new 40,000 sq ft office block over 8,000 sq ft of retail space facing Ducie Street.

The £20m redevelopment of the Gateway House and Station Approach was delivered by a D&B contractor led team. Adept were appointed as civil and structural engineer for the scheme.

Simplicity and economy were the main requirements overall.

SOLUTION

Gateway House is one of Manchester's finest surviving buildings from the 1960s. As a result, the strategy for the refurbishment of Gateway House was one of conservation rather than reconstruction.

The building was stripped back to its existing concrete structure and reload to meet current envelope requirements whilst retaining the horizontals and fine grain of the existing fenestration.

New service provisions required new voids to be threaded through next to existing lift core areas, reusing some existing risers where

possible. This aspect presented some challenges due to opening up and coordination requirements.

Adept engineers studied the existing undercroft car park areas including altered Victorian barrel vaults. The new structure was generally steelwork beams craned in to trim new openings in the existing RC structure.

Partial historical construction information was available but not complete, however the breadth of Adept's team experience allowed good coverage of all aspects of the project.

Rudding Park Hotel & Spa, Harrogate

OUR PROJECTS



SUMMARY

Client

Rudding Park Hotel

Location

Harrogate

Project value

£9.5m

Architect

Enjoy Architects

Contractor

Henry Boot Construction

Project brief

Adept was appointed to carry out **specialist structural designs** for Rudding Park's new, state of the art, spa expansion.

The development included the **reinforced concrete structures for the main building and basement areas**, the 17m swimming pool and suspended box-in-box hydrotherapy pool, thermal rooms, treatment complex, restaurant and bar.

The spa has been designed with BREEAM principles, to be very spacious, light and airy, sitting within a natural environment, enhanced by a fully landscaped roof garden.

SOLUTION

The three storey structure features submerged treatment rooms, with the main pool on the ground floor. The sauna and steam rooms are situated within a glass structure at first floor level.

Adept was appointed to design and detail the civil and structural elements of the project which included the reinforced concrete structures for the main building and basement areas, the swimming pool and hydrotherapy pool

Building Performance

The scheme was a very complex project mainly because of the **vast weights** involved. The landscaped roof garden alone has a loading requirement of over a tonne per square metre in places. To overcome this, Adept

designed a **reinforced concrete frame** which has the added benefits of being extremely water tight and very good acoustically. Noise transfer is therefore kept to a minimum allowing certain areas of the building to remain quiet, helping to create the required relaxed ambience of a spa environment.

Optioneering reduced the environmental impact

Expert engineering adapted a traditional design using pad and raft foundations with lower embodied carbon rather than using piled foundations recommended in the site investigation.

Collaborative delivery

Our BIM technology supported design stage and as-built stage thermal modelling.



Leeds Kirkgate Market

OUR PROJECTS



SUMMARY

Client

Leeds City Council

Location

Leeds City Centre

Project value

£12m

Architect

IBI Architects

Contractor

Interserve
Construction

Project brief

Situated in a prime city centre location, on Vicar Lane, Leeds, the Grade I Listed building has undergone a major £12.3 million refurbishment and improvement scheme by Leeds City Council. Adept played a key role in the scheme to provide a full range of civil and structural engineering services.

"Adept's team has a wealth of experience working on other large-scale and historical buildings and immediately understood the project's requirements, which made them the ideal engineers for us to work with."
Eamonn Cahill, Senior Project Manager

SOLUTION

Leeds Kirkgate Market first opened in 1857 and is one of the largest indoor markets in Europe.

Adept's services included designing the structures for the Market's new retail units and service areas, as well as creating a brand new event space, now one of the Market's key focal points. Adept were also responsible for verifying the adequacy of the roof structure, designing a replacement floor slab and upgrading the market's drainage system.

The Client were particularly pleased with Adept's re-design of the original drainage

scheme as it determined the work did not require an application for road permits - this ultimately saved the client a significant amount of time and money.

The work to the roof areas was significant. Adept provided condition surveys to both the historic roofs and the more recent 1976 and 1981 space frame roofs. Roof inspections were coupled with coordinating an analytical survey that proved the loading capacity of the existing structures. Adept therefore provided direct advice to the council on matters pertaining the roof.



Next Distribution Centre, Doncaster

OUR PROJECTS

SUMMARY

Client

Next PLC

Location

Doncaster

Project value

£55m

Architect

SiCa Architects

Contractor

Bowmer &
Kirkland

Project brief

Adept worked with main contractor Bowmer & Kirkland and steelwork contractor Billington Structures on the 58,000 square metre, 25 metre high distribution centre and offices for retail giant Next. Almost 5,000 tonnes of steel was used to create the impressive and modern structure.

Adept were responsible for both the concept and detailed design for the project situated at IDI Gazeley's 115 acre G Park in Doncaster.

SOLUTION

Built around a steel-framed multi-span portal frame, which measures up to 380 meters in length with spans of up to 37 metres.

A steel structure was the ideal solution for this build, as it was quick to construct, cost effective and accommodated the long span qualities needed.

Adept engineers designed flexibility into the steel frame so that it not only meets the demands of the business now, but there is the option for further expansion in the future.

800 tonnes of rebar were modelled without any issues on site.

One end of the distribution centre has a **four storey office block** attached, and a conveyor link bridge, used for stock transferral, from the north eastern corner of the building.

The bridge is a four span 120 metre long structure formed with a series of trusses to accommodate the double deck configuration. The lower deck features conveyor belts for transporting goods and the upper deck is a pedestrian thoroughfare for staff.



Our Business Values

Adept is a technology led organisation built around collaborative values.

We work to Engineer Better Together using BIM.





Build your future and become a part of our success

INTERESTED?

If you are interested in this opportunity and would like to discuss it further, please contact us:

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e: jobs@adeptcsce.com

Adept is an Equal Opportunities Employer



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