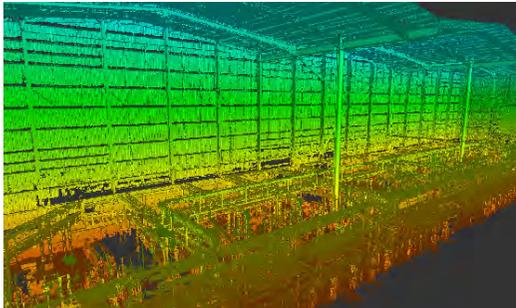


ADEPT

CIVIL AND STRUCTURAL CONSULTING ENGINEERS



RECRUITMENT BRIEF

Senior Structural Engineer

LEEDS



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

Founded in January 2007 by business partners Erol Erturan, Richard Parker and Matthew Ramsden. Neil Brown joined the company as a Director in 2019 to lead the Manchester office.

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**



The Opportunity

Dynamic and optimistic in their approach, we are looking for an ambitious and well rounded **Structural Engineer** who can identify innovative and cost effective strategies and design solutions

THE PERSON

- In depth building construction knowledge
- Motivated, collaborative, passionate
- Reliable and enthusiastic
- An analytical and detailed approach to work
- A confident team player with superb interpersonal skills
- A creative innovator with a technical approach to projects and tasks
- Unquestionable integrity, experience, confidence, and the stature to effectively address major client needs and challenges
- Detailed knowledge and understanding of the principles of Building Information Modelling (BIM)
- A hands-on approach to projects
- A natural troubleshooter who can find simple, efficient solutions to identified challenges or complications
- A keen interest in the design and structure of buildings

SKILLS AND EXPERIENCE

- Five or more years experience in the industry
- Good problem-solving skills
- Sound understanding of physics and mathematics
- Three-dimensional conceptual skills
- Extremely strong communication, presentation and negotiation skills
- Diagrammatic skills
- The ability to work effectively and efficiently within a team
- Impeccable attention to detail
- The ability to liaise well with professionals from other disciplines
- Excellent knowledge of relevant software (please refer to our Digital Innovation section for further details)
- The ability to work on multiple projects simultaneously



The Role

The work is office-based with occasional visits to construction sites.
The role itself is both technical and creative.

OBJECTIVES AND KEY RESPONSIBILITIES

- The preparation of reports, specifications, designs and drawings, briefing documents, feasibility studies and options appraisals
- Assisting with or leading a variety of projects to completion; undertaking integrated 3D modelling and structural design
- Structural analysis with a particular focus on calculations in relation to loads and stresses
- Obtaining planning and/or building regulations approval
- Assessment, monitoring and integration work undertaken by specialists
- Administering contracts
- Managing projects from inception through to completion
- The consideration of the strength of various materials, e.g. timber, concrete, steel and brick, to evaluate how their inclusion may necessitate a change in structural design
- Liaison with other designers, including architects, to agree on safe designs and their fit with the aesthetic concept of the construction
- On-site inspection and testing
- The examination of structures at risk of collapse and advise how to improve their structural integrity, such as recommending removal or repair of defective parts or rebuilding the entire structure
- Work collaboratively with geotechnical engineers to investigate ground conditions and analyse results of soil sample and in situ tests
- Liaison with construction contractors to ensure that newly erected buildings are structurally sound
- Apply expert knowledge of the forces and their subsequent effect on various structures
- Site appraisals and surveys
- Geotechnical and geological investigations
- Material investigations
- Ground improvement studies
- The structural design and detailing of foundations, retaining walls, buildings, for example
- Assessment of special loads
- Building regulations submissions
- Defect assessment and the development of remediation solutions





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 and the opportunity to attend a range of employee social events. A discretionary profit and performance related annual bonus up to one month's salary will be provided.

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.

Our Social Committee organise and run several social events every year. Previous events include:

- an American pool tournament
- a bowling tournament
- a Krypton Factor Challenge
- a virtual golf tournament
- a bingo event
- a casino night out
- monthly sponsored pub outings
- Christmas party

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

Adept is an Equal Opportunities Employer



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

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 Curve ball

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 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 Institution of Structural Engineers.

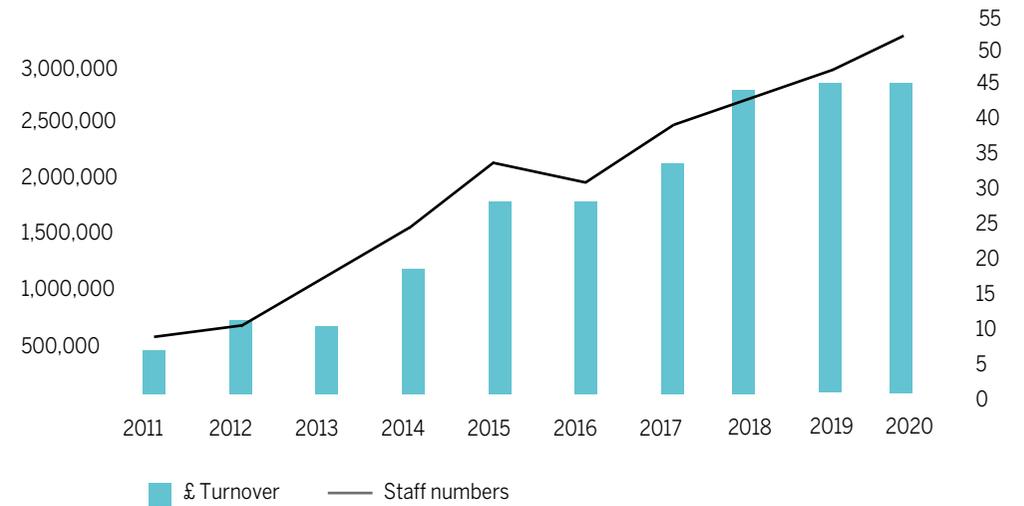
The award, the **Best Medium Sized Structure of 2018** (Yorkshire Regional Group – Medium Sized Business), for the prestigious £9.5m Ridding Park Spa Redevelopment, recognised our holistic approach to achieve innovative solutions to technical problems in an efficient and sustainable manner.

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 Dougkas

“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.

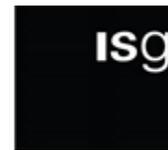
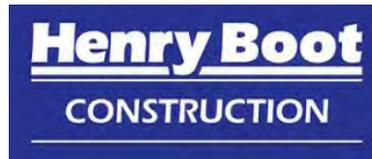
Working in **Revit was an invaluable part of the design** process in ensuring the team collaborated and developed a successful design.

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

Our clients



Industry Recognition and Accreditations

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



BIM Level 2



Constructionline
Gold Member



The Adept Culture and Team

We know that a happy workforce leads to increased morale, productivity and efficiency. Our extremely high retention rate and annual appraisal feedback demonstrates Adept's employee satisfaction.

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 training) for our staff, to help them develop and progress in their career. Our team of staff have a wealth of experience, talent, skills and industry knowledge.

The Social Committee organise a number of events every year. The events for 2019 included an American pool tournament, a bowling tournament, a team building weekend away, a virtual golf tournament, a bingo event, a casino night out and monthly sponsored pub outings.

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

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

All Adept staff are provided with two days paid volunteering leave per annum. A number of staff use this to provide volunteering to Lineham Farm Children's Centre in Leeds to help out with improvements to the facilities.

APPRENTICESHIP SCHEME

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

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 schemes.

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, MIStructE, MICE

Erol is a highly experienced Chartered Civil and Structural Engineer with experience in the design and project management of multi-storey steel and concrete framed buildings, large warehouses and major refurbishment projects.

With over 25 years industry experience, Erol set up Adept in 2007 and the organisation has grown over the years and now employs over 40 staff.

Erol has a very 'hands on' and collaborative approach to projects. He specialises in client liaison and the management and co-ordination of projects from the very early stages through to completion.

Erol's role on this project will be to manage a team of civil and structural engineers, technicians and BIM co-ordinators to effectively communicate information with the Principal Designer. He will lead and engage his team to ensure best practice design principals, quality standards and information management.

Erol is also a BRE Accredited BIM Professional.

Client testimonial:

“ Erol is someone you can rely on to get the results you require. Extremely focussed on his client and always strives to understand his clients business.”

John Hall, Project Director at DHL

EXPERIENCE

North Lincolnshire Retail Park, Scunthorpe

Value: £25m

Client: Simons Construction

New build retail park including 50,000 sqft M&S, Debenhams and Boots. Complex civil engineering design was required to address the lack of surface water drainage.

- Challenges surrounding the underground water course and water tables and raising floors above flood planes were eliminated thanks to the expertise of senior level involvement.
- Large column free areas were facilitated through the use of long span composite beams.



Sports Direct, Glasgow

Value: £5m

Client: Sports Direct

Adept were responsible for designing and overseeing the assembly of a substantial 450-tonne, three-storey steel frame within the building.

- The design included a timber deck first floor mezzanine, which could easily be removed without having to make any structural changes to the building or its frame.



Next High Bay Distribution, Doncaster

Value: £55m

Client: Next PLC

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

- Adept modelled 800 tonnes of rebar without any issues on site.
- Syphonic roof water drainage ran under the service yard and breaking the syphon just next to the attenuation pond. This meant that the pipes underground could be laid flat and saved a considerable amount of cost associated with extra dig and avoiding pumped rising mains.



ADEPT



RICHARD PARKER | DIRECTOR BEng (Hons)

Richard is a highly knowledgeable 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.

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 proactive advice pre tender and they extend this professional approach throughout the construction process.

I would recommend Richard Parker and Adept for future works.”

Andy Coates
Construction Director, Vistry Partnership

EXPERIENCE

Olympic Park, Birchwood, Warrington

Value: £10m

Client: Marshall CDP

Civil and structural services including substructure, superstructure, highways and drainage design. The project delivered 82,000sqft of office space over 12 high quality commercial buildings which were built to a BREEAM very good accreditation standard.

- The foundations to the columns of the two-storey offices were traditional mass concrete with external and internal blockwork walls, supported on concrete strip footings, reinforced for the vibro treated units
- The first floor construction comprised a composite metal deck floor with reinforced concrete with computer floor.



Next, Waltham Abbey

Value: £50m

Client: Next PLC

Adept is providing full civil and structural engineering services for a new 750,000sqft warehouse including two-storey integrated Grade A offices and photography studio. The clients intention is to achieve BREEAM excellent performance. Two additional speculative units will also be designed for.

- The client split the site into three plots each with varying topographical conditions
- Adept used Autodesk InRoads to assess the existing topography, site constraints and adjacent highways. This enabled us to ascertain the preferable approach to the cut and fill modelling:
- A balanced cut and fill over the development was considered, removing earth from a western hill plot and distributing it into a natural depression.



The Glassworks, Barnsley

Value: £88m

Client: Henry Boot Construction

The Glass Works, is a major town centre development scheme in Barnsley and is located on a 3.8 hectare site - it will provide the region with 590,000 ft² of entertainment facilities

- The new structures are located adjacent to existing buildings with party wall matters. Construction includes building over Sough Dyke, a culverted main sewer to Barnsley City centre.
- We re-designed the public realm to allow backfill material to be retained on site instead of the basement void saving time and cost in the region of £400,000.



ADEPT



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

Matthew's role on this project will be to manage a team of civil and structural engineers, technicians and BIM co-ordinators to effectively communicate information with the Principal Designer.

He will lead and engage his team to ensure best practice design principals, quality standards and information management.

Matthew has consistently delivered quality consultancy and responsive designs within complex educational and healthcare environments and is extremely focussed on providing Engineering solutions which are responsive to the client's needs.

Client testimonial:

"Thank you for a most excellent and professional service.

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,
Tilbury Douglas**

EXPERIENCE

Huddersfield Royal Infirmary, COVID Ward

Value: £5m

Client: Calderdale and Huddersfield NHS Foundation Trust

Appointed as a PSCM by IHP via the P22 Framework, to deliver the new COVID Ward 18 within the existing concrete framed building.

- Provided structural support and consultation throughout the duration of the project,
- Consideration was made to the construction methods of the external ductwork frames.
- Using advanced modelling techniques we were able to model the existing structure using historic record drawings. This benefitted the whole design team as it allowed an accurate 3D model to be generated early in the project for use throughout the works.
- The project won Building Better Healthcare 2021 Awards for Best Covid Project Team, Best Covid Project Team and Clinicians Choice.



Bradford Royal Infirmary

Value: £3.7m

Client: Bradford Teaching Hospitals NHS Foundation Trust

Adept provided engineering design services on a number of projects at the BRI working with Tilbury Douglas, appointed via the Procure Partnerships Framework.

- Overall aim to improve the obstetric theatres and labour ward facilities.
- Involved temporary works at the Maternity unit and internal wall removal as part of re-configuration and ward upgrades of Wards 2, 5 and 12.
- Replacement of the Trust's existing operating theatres housed into a new, two-storey extension.



Aire Court, Leeds

Value: £600,000

Client: Community Ventures

The project consisted of internal space refurbishment to allow functionality as a modern medical facility and also to provide a light rich and aesthetically pleasing entrance area.

- The project involved a complete refurbishment to the ground floor of the medical centre and included the removal of a number of load bearing walls.
- Steel beams were introduced to facilitate the load transfer from the upper floors where load bearing elements were removed.



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.



ADEPT



PAUL GILL | DIRECTOR
BEng (Hons) Civil Engineering

Paul is a highly experienced Civil & Structural Engineer with over 21 years' experience in all aspects of design.

Paul specialises in developing adoptable solutions for challenging schemes with difficult ground conditions, including sites of archaeological importance. He is an expert in site due diligence and will oversee our delivery of schemes in a cost effective and timely manner.

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.

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, ENGIE Regeneration

EXPERIENCE

Rotherham Housing

Value: £30m

Client: Wilmott Dixon

Housing development led by Rotherham Council to create 184 new homes in a living-led model on three interconnected brownfield sites at Milford House, former Henley's Garage and Sheffield Road.

- Material cut from two sites was re-used to fill Sheffield road, which required a contiguous piled wall to build up levels.
- Fusion system of lightweight gauge steel was specified to reduce piling and minimise the foundation solution costs.
- We demonstrated flexibility and responsive engineering in the drainage philosophy due to an unknown culvert discovered during bulk earthworks.
- Liaison with Yorkshire Water ensured sewer adoption was expedited efficiently to their approval.
- Working with surveyors to plot an easement around a large services culvert and advised CFA piles to minimise vibration.



Bishop Hill, York

Value: £4m

Client: McCarthy & Stone

Development of 33 retired living apartments with balconies, situated within the city of York's historic walls.

- We designed a steelwork framed structure to support the upper floors, due to an undercroft car parking area.
- Space was maximised by using steel columns instead of load bearing masonry walls.
- The project required careful consideration and design appropriate to the surrounding conservation area, whilst fulfilling the clients brief and commercial requirements.



Station Road, Denholme

Value: £8.3m

Client: Together Housing

We are providing civil and structural design services for Vistry Partnerships on this mixed tenure scheme of 72 units. This brownfield site in the outskirts of Bradford will be transformed into high quality affordable housing.

- We assisted Vistry with the outline Flood Risk Assessment and drainage strategy ramifications in terms of cost, ease of construction and adoptability.
- We are working closely with the authority's Engineer for S38 Highways remediation and levels design.



Rudding Park, North Yorkshire

PROJECTS

SPA REDEVELOPMENT SCHEME

Rudding Park is a privately owned luxury five star hotel in 300 acres of gardens and woodland and is situated in Harrogate, North Yorkshire. The existing hotel has been developed and extended over a number of years. We were appointed to carry out specialist structural designs for Rudding Park's new, state of the art, contemporary £9.5m spa expansion. The spa was designed to be spacious, light and airy. Adept worked with main contractors Henry Boot and Howard Civil Engineering on the project which included a 17 metre swimming pool, a hydrotherapy suite, thermal rooms, treatment complex, restaurant and bar as well as a feature rooftop garden.

Designed by Leeds based Architects, Enjoy Design, the three storey structure features basement level treatment rooms, with the main pool on the ground floor. The sauna and steam rooms are contained within a glass structure at first floor level. From the outside, the true scale of the building is deceptive as many of the facilities are submerged below ground.

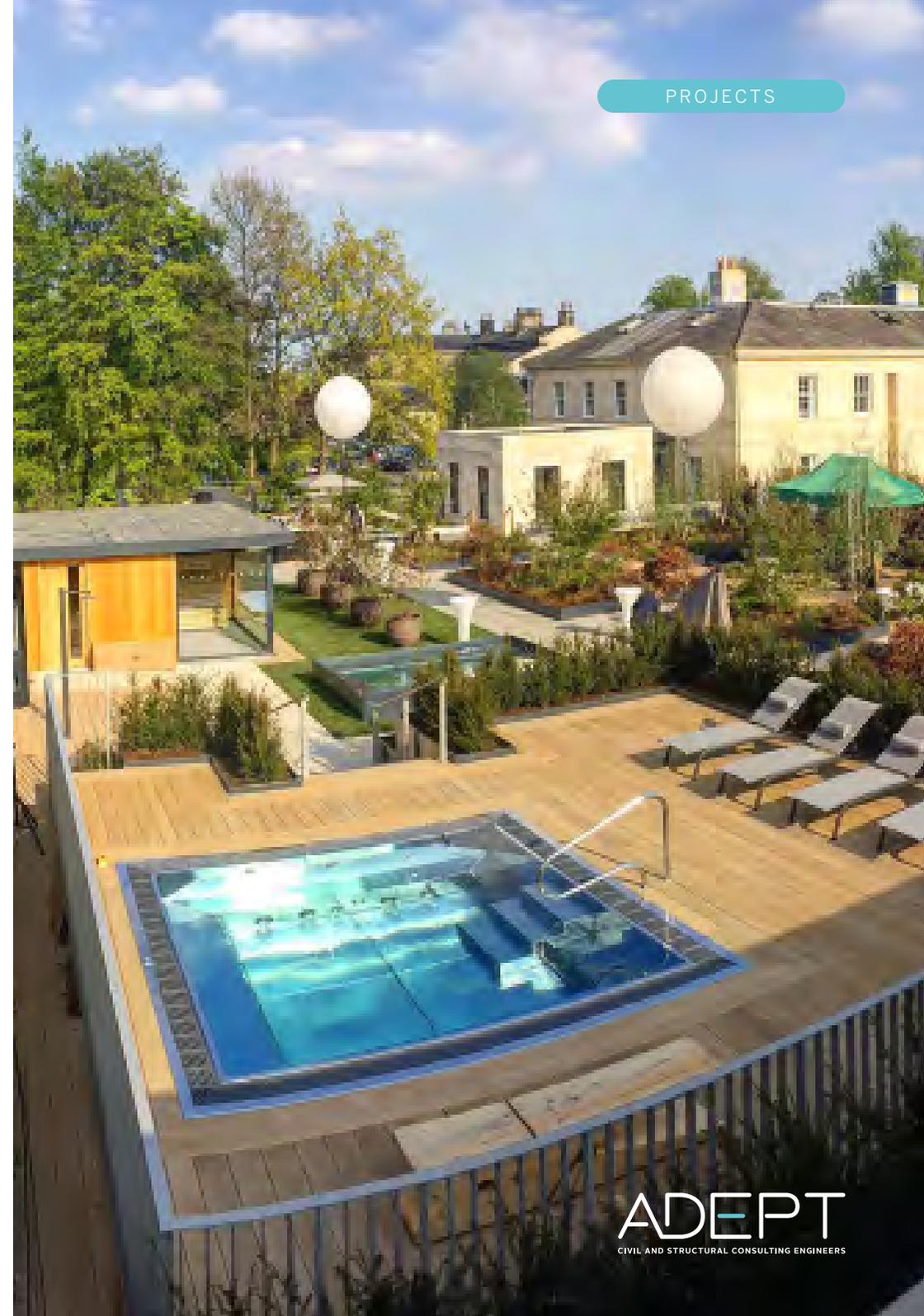
Adept designed and detailed the civil and structural elements of the project, including the reinforced concrete structures for the main building and basement areas, the swimming pool and suspended first floor level hydrotherapy pool. The spa extension is the latest addition to the hotel's impressive range of facilities which include a 90-bed four star hotel, the AA Rosette Clocktower Restaurant, golf course, cinema, conference.

"This was a stunning project to work on, however, it was also a very complex project because of the vast weights involved. The roof garden alone has a loading requirement of over a tonne per square metre in places, once it had been landscaped. To overcome this, we designed a reinforced concrete frame which has the added benefit of being extremely water tight and very good acoustically, which means parts of the building are very quiet to enhance its relaxed ambiance."

Erol Erturan, Managing Director, Adept Consulting Engineers

"Our new Spa surpasses anything else in the north of England. The whole project was designed to recapture Harrogate's Spa heritage, by providing a range of superb facilities in tranquil surroundings, and we were delighted to work with such an experienced team of consultants to deliver the scheme."

Peter Banks, Managing Director, Rudding Park



Leeds Kirkgate Market

PROJECTS

REFURBISHMENT AND IMPROVEMENT SCHEME

Situated in a prime city centre location, on Vicar Lane, Leeds, the Grade I Listed building had a major £12.3m refurbishment and improvement scheme by Leeds City Council. Leeds Kirkgate Market is one of the largest indoor markets in Europe and is of significant local and historical importance, having enormous relevance to the diverse communities of Leeds and the wider Yorkshire region.

Adept's role was key to the success of the development scheme. Appointed by the contractor Interserve, we provided a full range of civil and structural engineering services on the project. Our services included designing the structures for the Market's new retail units and service areas, as well as creating a brand new event space that will become one of the Market's key focal points. We were also responsible for verifying the adequacy of the roof structure, designing a replacement floor slab and upgrading the market's drainage system.

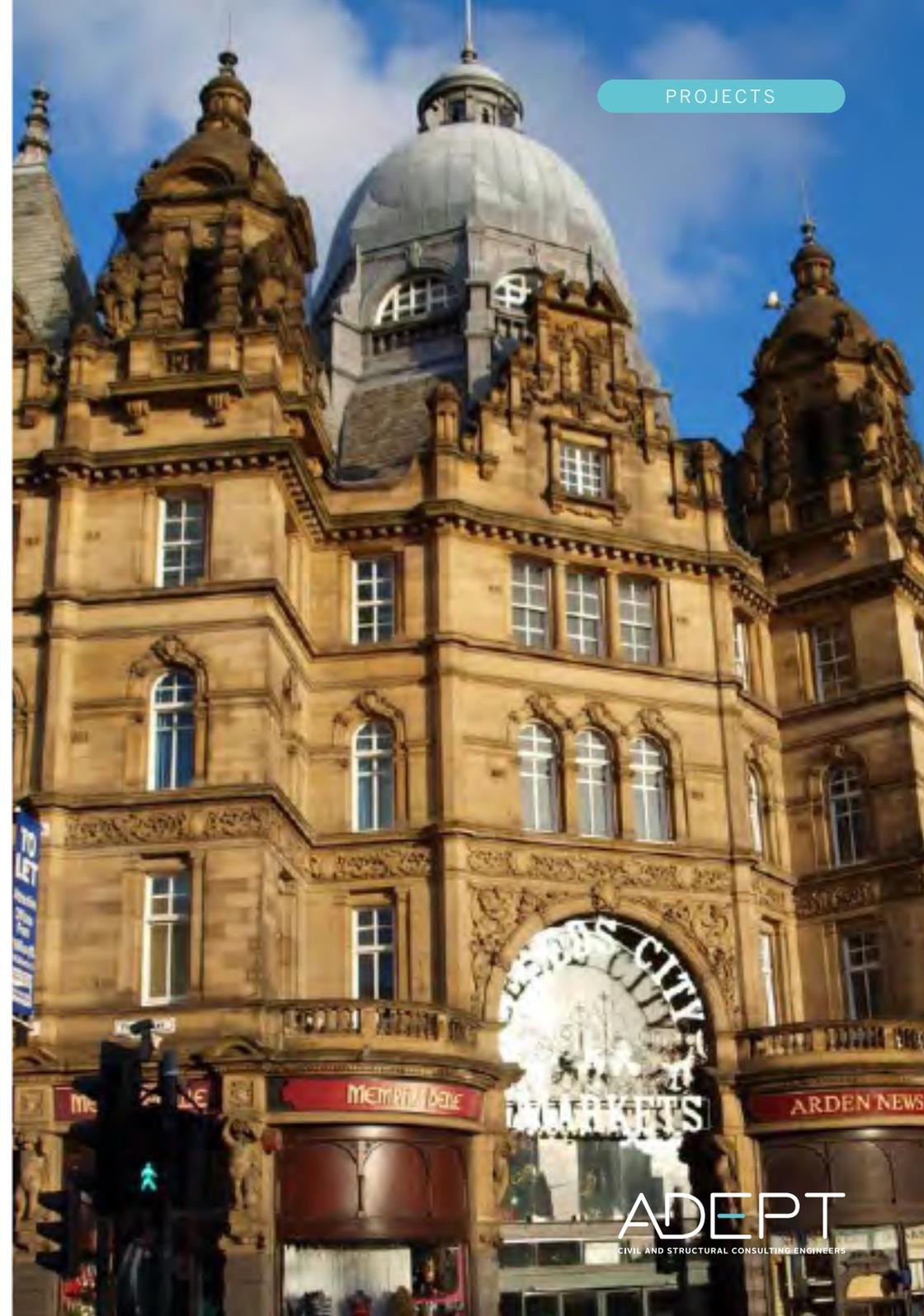
The work to the roof areas provided a large proportion of the work and Adept were able to provide condition surveys to both the historic roofs and the more recent 1976 and 1981 space frame roofs. These roof inspections were coupled with coordinating an analytical survey which proved the loading capacity of the existing structures and together enabled Adept to provide direct advice to the council on matters pertaining the roof.

"This was a complex project because the Market was mostly constructed in four main periods dating back to 1875, 1904, 1976 and 1981 and each section has its own history and challenges. Large parts of the building are in need of repair and the drainage system is antiquated by today's standards".

Matthew Ramsden, Director, Adept Consulting Engineers

"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, Interserve



Next, South Elmsall

WAREHOUSE

SUMMARY

Client

Next

Location

Wakefield

Project value

£90m

Architect

pHp Architects

Contractor

Bowmer + Kirkland

Project brief

The new facility is a 48.85 acre industrial development creating circa 1 million square feet of warehousing and logistics space.

The warehouse is an extension to Next's current site in South Elmsall, Wakefield to meet demand for online sales and generating 1000 jobs in the local community.

The warehouse links up with one of our other Next projects using a link bridge over the existing public highway to enable automated racking and pedestrians to move between the warehouses.

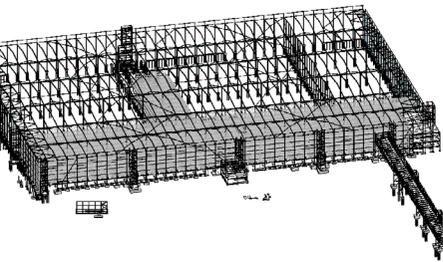
SOLUTION

The team had to work creatively to overcome a number of difficulties with this site, including the major sewer diversion of a large foul and surface water sewer located through the centre of the planned warehouse. We liaised closely with Yorkshire Water and designed a S185 scheme which they agreed and took forward to move the critical asset.

In addition, as part of green belt land, there are some popular Public Right of Way routes which we have re-routed around the site.

By offering design creativity and innovative solutions required of such a large build, we have supported their ambitious target of having the new warehouse at least partially up and running by early 2022

Working with Next since our beginnings in 2007, we have now delivered 126 projects including large new build, refurbishments and mezzanine installations.



Huddersfield Royal Infirmary

HEALTHCARE



SUMMARY

Client

Calderdale & Huddersfield NHS Foundation

Project value

£2.5m

Architect

IBI

Contractor

IHP

Project brief

Calderdale and Huddersfield NHS Foundation Trust required the fast-track conversion of an existing ward into a dedicated, self-contained ward treating patients with Covid-19. The programme was expedited by 25-30% to ensure completion of the works before an anticipated winter surge in additional patients to the hospital.

We were appointed to advise on structural alterations to the existing fabric for the installation of specialist mechanical equipment for use by the future patients. We also provided remote, daily support to the entire design and construction team while the works were underway on site during the pandemic.

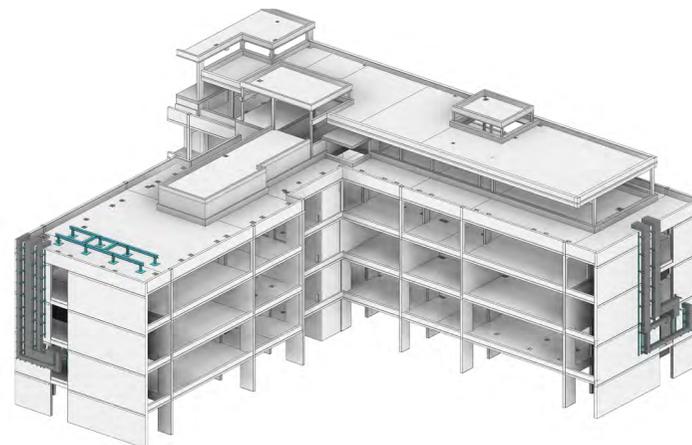
SOLUTION

Reviewing the original 1960s construction drawings helped us to understand the building and locate the existing M&E installation, but we waited until the internal spaces had been stripped out to re-assess unknown changes from the original drawings.

The key challenge for us was establishing the current strength and safety of primary structural elements affected by previous alterations, such as small punctures through the floor slabs having potentially weakened the existing concrete. We had to carefully devise a safe solution that enabled the M&E team to interweave their new apparatus with minimal effect on the existing structure.

The programme for this time-sensitive project was extremely challenging, as was the need to protect everyone involved from exposure to Covid 19.

To support the contractor who was under considerable time pressure working around the clock, we made available a dedicated member of our staff to provide instant responses to site queries. Using Microsoft Teams, we participated in a project team update every morning at 8.00 for three months. Our proactive attitude helped to ensure smooth running of the programme and ensured we always remained ahead of any arising issues.



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?

To apply, please send you CV and covering letter to jobs@adeptcsce.com or call 0113 239 4518 if you would like to enquire about the role.

Adept is an Equal Opportunities Employer



ADEPT
CIVIL AND STRUCTURAL CONSULTING ENGINEERS

ENQUIRIES:
0113 239 4518

ADEPT

CIVIL AND STRUCTURAL CONSULTING ENGINEERS

LEEDS

1912 Mill,
Sunny Bank Mills
Town Street
Farsley, Leeds
LS28 5UJ

SHEFFIELD

Courtwood House
Silver Street Head
Sheffield
S1 2DD

MANCHESTER

St James Square
4th Floor
Manchester
M2 6DN

LONDON

25 Horsell Road,
London,
N5 1XL



ENGINEERING
BETTER
TOGETHER



ENGINEERING
ETHICS
BETTER TOGETHER

www.adeptcsce.com