Our vision is to be widely recognised for excellence in the formation and implementation of MEP Design.

We believe in developing personal connections with all our clients by understanding their own individual needs and using our engineering skills and commercial awareness to deliver genuine benefits.

We continue to ask ourselves how can we make a difference and endeavour to deliver buildings in a cost effective and environmentally sensitive manner. We strive to create a sustainable future.
Hannan Associates is an engineering consultancy formed in 1983 to provide MEP Design Solutions to the Construction Industry.

We focus on building services and have the capability to manage and deliver projects valued in excess of £500m with national and international design teams. We work in a range of sectors with projects of varying sizes, providing us with good market resilience and an exceptional breadth of track record and design competence.

We pride ourselves on delivering our service with a higher level of personal attention than larger competitors but providing a comparable strength of management, process discipline, expertise and creativity.
In essence we provide MEP Design Solutions to the construction industry. We have been doing this since 1983 so we have become pretty good at it. Here are some of the ways we can help you…

**What do we do?**

- **A**  
  Acoustics  
  AV Systems

- **B**  
  Building Health Checks  
  BREEAM Assessment  
  Building Physics

- **C**  
  Condition Surveys  
  Construction Inspection and Supervision

- **D**  
  DEC Certification

- **E**  
  Electrical Building Services Design  
  Energy Audits  
  EPC Certification

- **F**  
  Feasibility Studies  
  Fire Engineering

- **I**  
  Infrastructure Planning and Design  
  Internal Environment Modelling  
  IT Systems Design

- **L**  
  LEED Assessment

- **M**  
  Mechanical Building Services Design

- **P**  
  Planned Maintenance  
  Planning Reports  
  Public Health Building Services Design

- **S**  
  SBEM Calculations  
  Services Engineering Appraisal  
  Sustainable, Renewable and Low Carbon Design

- **T**  
  Thermal Modelling

- **V**  
  Vertical Transportation Design

- **W**  
  Water Conservation & Compliance Audits
Our engineers and technicians possess a unique, intimate understanding and knowledge of energy use in buildings and they have been responsible for the design of numerous BREEAM EXCELLENT schemes. We draw upon extensive experience of sustainable and low energy schemes having completed many examples.

We have a full range of modelling and simulation tools at our disposal to ensure the optimum solution for each situation and our expertise encompasses the selection and incorporation of renewable energy sources to offset energy demand and our projects have included a variety of renewable technologies.

Our sustainable Design team is led by registered Low Carbon Consultants & Low Carbon Energy Assessors under the CIBSE qualification scheme and qualified BREEAM Assessors and Accredited Professionals. Hannan Associates have a proven track record in undertaking BREEAM assessments for a diverse mix of building types. We are proficient in the techniques and processes required to design and achieve BREEAM certification to the highest standards. Our assessments to date encompass every major sector including industrial, healthcare and education and have been commissioned at the request of major contractors and developers.

Our BREEAM Assessors have years of experience in the field of sustainability and have devised a suite of bespoke documents tailored to streamline the assessment process and provide a highly efficient service. We provide a comprehensive BREEAM assessment service from cradle to grave.

**BIM**

Hannan Associates have adopted a highly collaborative and sharing approach to project design co-ordination for a number of years with the goal of achieving well integrated high performance buildings. We have in house 3D drawing and thermal modelling capabilities and extensive experience in the use of 3D on our projects, including many complex buildings.

All of our projects are thermally modelled in 3D and we have vast experience in collaboration with multi-disciplinary design teams to develop buildings which achieve high performance, through enhancing building design via detailed iteration. These schemes include ground breaking BREEAM outstanding and A+ EPC rated buildings.

For design co-ordination, drawing production and clash detection we use Autodesk Architecture, Engineering & Construction (AEC) Collection which contains:

- Revit
- Navis Works Manage
- 3D Max
- AutoCAD MEP
- AutoCAD Plant 3D

We are committed to undertaking ongoing investment in our ICT systems and providing the relevant training and development for staff in order that we continue deploying BIM strategies across our projects and develop new and effective methods of achieving our goals
Our Team

The development of the company has been aided by a strong, long serving work force through which we have developed lasting relationships with our clients, ensuring that 80% of our turnover is achieved through repeat business. We recognise that we cannot do this without the support and enthusiasm of all our employees and we therefore endeavour to maintain the highest levels of team work and co-operation and develop staff that possess well founded self-belief who will act with diligence and integrity on behalf of our clients.

Many of our engineers have worked together over a long period of time, some for over 25 years, completing many successful projects together. Treating each project as unique we handpick each team to collectively possess the skills and range of experience needed to succeed, whilst creating a dynamic environment that encourages creativity. The company is led by our directors Ian Joyce, John Walker, and Jamie Hall.

Ian has 35 years’ experience of Design and development of a wide range of new and refurbished buildings from conception, through to completion including management of maintenance. During his career he has gained vast experience as project director for many large and prestigious projects and development of M&E schemes from concept through to completion, many of which include low energy technologies.

John has 30 years’ experience in building services consultancy with 12 years at director level. He is a Chartered Engineer and Chartered Director. He has strong project and management experience with an unblemished record of project success, client satisfaction and financial return.

Jamie has over 25 years’ experience of Building Services Design. During his career he has been involved with a diverse range of projects including several town centre regeneration schemes. Jamie has in depth knowledge of projects featuring complex infrastructure appraisal, strategy and procurement. He is also a registered CIBSE Low Carbon Consultant and Energy Assessor.
Our Clients

There is no greater feeling than a job well done and achieving client satisfaction and this is what drives us in our approach to business. Our basic business philosophy is to establish a long term working relationship with every client and more than 80% of our business comes from repeat clients. We adopt a proactive approach to understanding each individual client’s needs and goals and we then formulate our service delivery in a manner which, we feel will best achieve client satisfaction.

We greatly appreciate each and every one of our clients, the interesting projects they bring to us and the talented design teams they introduce us to. We realise we wouldn’t be here without them and their continued loyalty. Here are just a few of the clients we have worked with over the years:
Stadia

Hannan Associates have been involved in the design of stadia and training grounds, both new build and existing for 30 years.

Our stadia team possesses a wide range of skills and experience gained from working on internationally known stadia to smaller non-league developments and all levels between. This wide range of experience has provided a wealth of skills to draw upon in selecting the correct solution and providing the client with a scheme which meets the technical requirements and needs while being economical and commercially viable.

Designs for building services have to be visionary yet tried and tested with complex safety systems and technologies and with multifunctional flexible usage of rooms.

We continue to build upon our portfolio of experience and specialist knowledge of sport and leisure sector projects, unrivalled in the UK, which we believe to be a contributing factor towards the success of the projects upon which we work.
Hannans have been involved in various projects for Manchester United Football Club for 30 years. Ongoing Duties have included, Detailed Design, Infrastructure Services, Major Services Diversions, Monitoring, Surveys, Maintenance, Energy Performance Certificates and Condition Reports.

One of the most recent projects at Old Trafford was the Quadrants Development, which involved the infill of the North East and North West Quadrants, for which we provided Detailed Design Services. This development has provided additional spectator terracing of 7,000 extra seats and 2,300 extra places for corporate dining. The design was complicated by the myriad of existing buried services which needed to be diverted to accommodate the piling required for the structure.

An enabling diversion and investigation works contract was required to be carried out in the closed season before the main contract was awarded. This required very careful and close coordination with the design team and structural engineer to integrate the design of the structure with the services to develop the design of the building and the services together enabling as many services as possible to remain in place around the structure.

To facilitate this Hannans managed the location and excavation trial pits and ground imaging surveys directly with on site staff in a site based design and coordination role.

Hannans micro managed the specialist sub contract engineers and the infrastructure companies, who carried out the investigation works and succeeded in completing the diversions and design during a closed season prior to the commencement of the main contract.

The main contract required close scrutiny of the costs on a regular basis with monthly reporting regime ensuring that budgets and timescales were adhered to during this demanding in fill to an existing building. The scheme was value engineered to meet demanding budget targets set by the club.

The build team were finalists in the major project section of the CIOB awards. Old Trafford has subsequently received a Green accreditation for sustainable achievements.
We provided MEP Detailed Design Services for the East and West stand redevelopment at Old Trafford, which involved building behind and over the existing stands.

This development provided additional spectator terracing of 16,000 extra seats. The design was complicated by the myriad of existing buried services which needed to be diverted or planned around to accommodate the piling required for the structure.

There were a number of buildings demolished and roads diverted. No seats were lost during the development and early handover was achieved by working in partnership with the design and build contractors.

The scheme included new executive boxes, new club offices, disabled facilities, new upper concourses terracing and roof installations.
Having successfully previously completed the academy building and full size indoor pitch at Manchester United’s Carrington training complex, Hannans were appointed to design the building services and infrastructure diversions for a series of alterations, extensions and new buildings.

The scheme comprises the refurbishment alteration and extension of the first team building, a new sponsors building, a new parents and spectators building, relocation and additions to the a side courts, new car parking surfacing, temporary accommodation and lighting and a new feature linking glazed walkway and water feature with illuminated signage with a scheme value of around £13m.

The works included an enabling diversions and drainage improvements package and working on a live site environment with the first team, academy teams and team management remaining on site during the works. This required careful planning and phasing of the works to protect all staff but particularly the valuable players and management team while maintaining privacy and completing the project in a short timescale.
Hannan Associates were the Building Services Designers for the master planning and redevelopment of the Molineux stadium.

The first phase of the project was the new North stand, starting with the master planning of redeveloping the ground in a phased manner, with due consideration of the live stadium and site wide services. These included IT, public address, HV infrastructure, turnstile monitoring, essential services, AV systems, CCTV and replacing UEFA class 4 Elite standard sports lighting temporarily and permanently.

The second phase being the new East stand, with other stands to follow.

Scheme development of phase 2 including enabling works and fitting out for East stand, executive boxes, lounges and banqueting hall. Including designing services to allow early occupation of terrace and lower concourse.
We were selected by Bristol Sport together with Capita Project Management and KKA Architects, for the redevelopment of the Ashton Gate Stadium which is the home of Bristol City FC, Bristol RFC and Bristol WFC.

The scheme involved the replacement of the South and West Stands, and the refurbishment of the East Stand, increasing seating capacity to circa 26,500 seats. The stadium is designed to be flexible to allow non-event day use, including exhibitions and conferences. The planning conditions included a requirement for renewable energy production, and the scheme includes bio diesel heating, and a large photovoltaic array on the West stand roof. We were appointed to provide MEP Design, Acoustics, IT, Sports Lighting & Fire Engineering Consultancy and BREEAM Assessment for the project.

Construction was phased to allow continued usage of the stadium for football and rugby events during the build and include:

- Enabling works to services
- Phase 1 Demolition and construction of the new South stand with shop, Museum space and bar
- Phase 2 Alterations and refurbishment of the East stand
- Phase 3 Demolition and construction of the new West Stand

The scheme also included:

- Maintenance of stadium control room and safety systems though the phases
- Internal and external large screens
- Enhanced finish concourses with LED and signage, both internally and externally for exhibition use.
Hannan Associates provided a Stage 4 Design of the Building Services Design for the expansion & refurbishment works at Stoke City’s Bet 365 Stadium.

Works included:

1| Infill of the South East Corner Stand creating additional seating and concourse including diversions and maintaining existing services

2| Upgrade of the stadium accessible seating in all stands to comply with Premier league and government guidance

3| SE and NW Corner media screens and new NW corner media control suite including diversions

4| Alteration of the South stand segregation for away fans to allow flexibility of use
Hannan Associates were the Building Services Designers for the master planning and redevelopment of the Welford Road stadium with the first phase being the new Caterpillar stand.

The master planning of the whole ground in a phased manner with due consideration of the live stadium and services including maintaining and replacing UEFA standard sports lighting, consulting with users and specialists, adding value by ensuring that the phasing was structured with the servicing to meet the long term aspirations of the client.

Phase 1 included the demotion and replacement of the North stand with the new single tier terrace of 10,200 seats and including concourses, crush bar and executive dining facilities with associated catering production areas. The scheme included a planning policy requirement to include a renewable technology to meet 13% of the energy consumption. Biomass boilers were chosen following a feasibility study which was designed to meet the future development requirements to ensure value for money in the long term and future phases.
Hannan’s were appointed to work on the first scheme for the design of Liverpool Football Club’s new stadium during 2007 with AFL Architects.

Then following the sale of Liverpool Football club to the new American owners we were appointed to design the building services for their new unique stadium design up to BSRIA Stage E. We worked closely with Architects HKS and the wider design team.

Our role included managing sub consultancies for Information Technology, acoustic, pitch advertising, and outside broadcast systems. Design development and progress was structured using the RIBA stage reporting process and carefully managed through coordination meetings. Our team was supplemented by a coordination engineer with a specific task of integration of the many complex technology and physical services. Using 3d modeling and design coordination meetings the services were integrated in and around the complex structure.

The team developed value engineering opportunities and worked closely with sub-contractors to achieve budget targets. Sustainability was at the forefront of the design development process and included technologies such as maximization free cooling and natural ventilation where possible. The renewable technology options including options for the inclusion of biomass boiler plant, ground source heat pumps, and Rainwater recovery.
The Reebok stadium (now renamed Macron Stadium) is the home of Bolton Wanderers Football club. The stadium designed by Hannan’s incorporates 25,000 seats for football together with executive facilities and a hotel, conference facilities and an exhibition hall.

Hannan Associates conceived, designed and completed the stadium building services to all areas for the stadium, which incorporates a number fully equipped commercial kitchens to serve the large corporate match day requirements. With over 3,000 executive places provided with suites of varying sizes from boxes for 8 people to banqueting for 500 providing buffet style menus through to silver service al la carte dining.

All of the stadium executive facilities are designed as multifunctional non match day spaces, which are utilised throughout the year for conferences and exhibitions as well as parties, weddings and banquets.

The stadium incorporates an extensive and wide variety of safety systems to protect the 25,000 people using the stadium on a match day, and the non-match day occupants. These systems include standby power generators and battery cubicles, emergency lighting, automatic fire detection, firefighting shafts and lifts, crowd monitoring, exit gate release, cctv and public address throughout.
One of several projects we have undertaken for MUFC during the last 25 years is the Old Trafford Museum that includes a visitor centre and the red café. We designed the complete mechanical, electrical and public health installations. The project involved the fitting out of the existing level 3 of the North Stand. Themed areas include the theatre, Red café and interactive exhibit spaces.

Designing the mechanical and electrical services for the building was a challenge due to the unique construction of the stadium and stringent requirements for public safety on Match and non-match days. Interfacing with existing systems was a major consideration during the design and installation. Existing systems had to be extended and/or modified so that they were coordinated with the exhibition stands and displays. All works were undertaken whilst the stand was occupied.

The museum won large visitor attraction of the year at the 2013 Manchester Tourism Awards, it has also been awarded an Enjoy England Quality Attraction Rose. It has achieved a Gold Green Tourism Status due to outstanding contributions to green tourism, including the use of latest technologies such as LED lighting, efficient boilers and renewable technologies.
Hannan Associates are Building Services Design, Sustainability and Infrastructure Consultants for the redevelopment of Newbury Racecourse.

The £20 M redevelopment includes a new 4* 120-bed hotel by ‘Bespoke’ Hotels, the creation of a more impressive entrance providing a real ‘sense of arrival’, new ticket offices, new weighing room, new parade areas, refurbishment of the stable block, new accommodation for the ‘stable lads’, a new building for the children’s nursery at the racecourse, improved access to the racecourse via a new bridge, upgrade external lighting, landscaping and car parking.

Improvements and additions to the current racing and golfing facilities at the racecourse are also being made. The site will also have up to 1500 new homes of which up to 450 will be affordable, shared equity housing or available to rent.

It won the excellence in planning to deliver housing category at the 2015 Royal Town Planning Institute Awards.

Phases 1 and 2 of the Heartspace Scheme are now complete with the final phase, phase 3 on site.

Phase 1 included the construction of the new Owners Club to provide hospitality spaces for race-days and non-race-days and office accommodation for NRC staff along with new Parade Ring and Saddling Stalls. Phase 2 included the construction of the new East Entrance building.

Phase 3 involves a new South Entrance building, 2nr Totes, landscaping and re-modelling of the Parade Ring and Winners Enclosure. The final phase of the scheme is due for completion by November 2018.
The City of Manchester Stadium was built for the Commonwealth Games held in Manchester during 2002 and converted to a football stadium for Manchester city following the games.

Hannan Associates provided checking duties and advice based on the wide experience gained in the design and execution of major stadia schemes. Hannans acted for the city council throughout all phases of the scheme. From design development, to installation and commissioning both for the commonwealth games and the occupation by Manchester City Football club. Hannan’s services also including the provision of on site engineers for the duration of construction and fitting out.

The engineers provided support for the building services maintenance contractors during the games including advice on problem solving. Part of the appointment was to identify deficiencies or over design in the scheme to provide value engineering advice to the design and build team.

Hannans were part of a team which included an architect and structural engineer; we worked together to provide a strategically coordinated design services approach.

Following the successful completion of the main scheme Hannan were appointed to design the building services for the Regional Athletics Arena and the management suite.

Client: Manchester City Council
Architect: Arup Associates
Project Value: £112 M
Contract Duration: May 2001 – January 2004
Training Academy and indoor pitch with facilities and accommodation for Blackburn Rovers Football Club.

Hannan Associates were responsible for the MEP and infrastructure design for the Blackburn Rovers Football Club Academy development.

The scheme included a full size indoor pitch, training facilities including swimming pool, changing facilities, medical facilities, accommodation and external pitches both grass and artificial.
AL RAYYAN STADIUM, QATAR

Project Location: Qatar  
Dates: 2016  
Stadium Capacity: 45,000 Seat  
Project Value: 1.3B QAR

A stadium designed for the Qatar 2022 World cup. We were engaged to develop a revised contractor design to value engineer the scheme with designs and presentations to the Supreme committee. We were successful and the contract has been awarded to our team.

QFHW STADIUM

Project Location: Qatar  
Dates: 2016  
Stadium Capacity: 45,000 Seat  
Project Value: 6.1 B QAR

A stadium designed for the Qatar 2022 World cup with additional facilities including Olympic swimming and diving pool and indoor sports complex and tennis courts. We were engaged to develop a revised contractor design to value engineer the scheme with designs and presentations to the Supreme committee.
**TABUK STADIUM**

**Project Location:** Saudi Arabia  
**Dates:** 2015  
**Stadium Capacity:** 30,000 Seat  
**Project Value:** £300M

A 45,000 seat stadium and precinct as part of the KASP development for the Saudi government. Designed to stage 2 concept.

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**AL JOWF STADIUM**

**Project Location:** Saudi Arabia  
**Dates:** 2015  
**Stadium Capacity:** 30,000 Seat  
**Project Value:** £300M

A 45,000 seat stadium and precinct as part of the KASP development for the Saudi government. Designed to stage 2 concept.
Hannan Associates were contacted to design the expansion of Gabala Football Club’s stadium in the mountains of Azerbaijan, between Baku and Georgia in one of the high seismic regions of the world.

The facility consists of a state-of-the-art training academy and a 25,000 seat stadium, incorporating hotel, conferencing facilities, retail and corporate hospitality space. The 9,000 m² training facility incorporates first and youth team facilities, separate recreation and training suites, gym facilities, swimming pool, indoor sports hall, & eight external practice pitches.

We were appointed to peer review the Arup design of this Sports City stadium at concept, developed and technical stages in the design development.

We technically appraised and identified substantial value engineering opportunities in the concept which was adopted in the design development.
Hannan Associates carried out the MEP, ICT and fire engineering services concept design to this 30,000 seat stadium in the south central region of Iraq up to BSRIA stage C design. The stadium included a number of sustainable technologies and incorporated low energy building services systems.

We carried out the MEP, ICT and fire engineering services concept design to this 30,000 seat stadium in the southern region of Iraq close to the Persian Gulf up to BSRIA stage C design.
HILLA SPORTS CITY STADIUM, IRAQ

Client: HKS Architects  
Architect: HKS Architects  
Project Value: $1 Billion  
Contract Duration: 2011

Hannan Associates were invited by HKS to provide utility master planning and MEP and ICT design for a 30,000 seat stadium on a self-contained sports village site with housing for 10,000 and social facilities including retail and entertainment complexes to be constructed in three phases over a ten year programme.

AL SADER CITY STADIUM, IRAQ

Client: HKS Architects  
Architect: HKS Architects  
Project Value: $1 Billion  
Contract Duration: 2011

We were invited by HKS to provide utility master planning and MEP and ICT design for a 30,000 seat stadium on a self-contained sports village site with housing for 10,000 and social facilities including retail and entertainment complexes to be constructed in three phases over a ten year programme.
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