

Healthcare Capability



BSP Consulting has over 25 years' experience delivering civil, structural, transportation, environmental and geotechnical engineering services across medical centres, mental health facilities, dementia care homes, and public and private hospitals.

We are fully familiar with healthcare standards including HTMs, CQC requirements and HAPPI principles, ensuring designs that promote patient well-being, clinical efficiency and operational resilience.

Our team is experienced with Procure 22/23, NHS SBS and 3PD routes, enabling clear navigation of governance, cost, and delivery frameworks.

Working closely with NHS Trusts, private providers and design teams, we support new builds, refurbishments and estate rationalisation, consistently prioritising safety, compliance and future flexibility.

We add value through early engagement, providing targeted technical advice at feasibility and planning stages to shape efficient, buildable and cost-effective solutions.

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We were very impressed with the new hospital which from our perspective showed a super patient environment, good flow to the layout and well thought out space.

Devon Partnership NHS Trust

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Cygnets Hospital, Coventry

BSP Consulting delivered full structural engineering design for Cygnets Hospital Coventry, a new 56-bed mental health facility comprising three specialist wards and eight step-down flats. Working within a three-storey steel-framed structure, BSP coordinated closely through Revit, exchanging IFC models with the fabricator to streamline design and construction. The team developed efficient composite floor solutions and a robust structure for therapeutic, clinical and recreational spaces totalling over 4,400m². The scheme showcases BSP's BIM expertise and capability in delivering modern mental healthcare environments on complex brownfield sites.

Client Cygnets Health Care



Cygnets Hospital, Maidstone

BSP provided civil and structural engineering services for the state-of-the-art 63-bed Cygnets Hospital Maidstone, designed to modern mental health specifications across four specialist wards. On this split-level site, BSP engineered a braced steel-frame incorporating a concrete retaining structure through the building to manage level changes, while frame design was optimised to maintain service routes in shallow ceiling voids. The result was a highly coordinated, efficient structural solution that supported Cygnets's clinical model and the delivery of generous therapeutic, recreational and administrative spaces.

Client Cygnets Health Care



Todmorden Health Centre, Yorkshire

For the three-storey Todmorden Health Centre, BSP developed civil and structural solutions that addressed significant flood risk from both the River Calder and the adjacent canal. The team raised ground-floor levels, introduced compliant access arrangements and designed a structure that accommodated level changes and lateral forces from the canal bank. Detailed vibration analysis supported specialist medical equipment, while the design allowed phased expansion requested during construction. The project demonstrates BSP's capability in resilient healthcare design on constrained, high-risk sites.

Client LSP Developments Ltd



Castle Healthcare Practice, Nottingham

BSP delivered civil, structural and transportation engineering for the new three-storey Castle Healthcare Practice, built above an undercroft car park to mitigate flood risk. The steel-framed, piled structure accommodates GP facilities, treatment rooms and pharmacy and dental spaces within a 2,576m² development. BSP resolved complex drainage and transport considerations at planning stage and incorporated a SuDS strategy and measures to improve bus, pedestrian and junction access. The scheme illustrates BSP's ability to integrate flood mitigation, transport planning and efficient structural design for large primary care facilities.

Client Embankment Primary Care Ltd



Woodseats Medical Centre, Sheffield

BSP provided civil, structural and transportation engineering for the new Woodseats Medical Centre, a multi-use community facility incorporating a pharmacy and library on a highly constrained urban site. The design overcame drainage complexities through close LLFA engagement and delivered significant cost savings in attenuation. To maximise developable area, upper floors were cantilevered over a large sewer, and retaining walls were engineered at the boundary to avoid costly tanking. The project highlights BSP's expertise in efficient engineering solutions on tight, technically challenging sites.

Client Woodseats Medical Practice



Church Hill Centre, Worcestershire

As structural engineers for the redevelopment of Church Hill Centre, BSP supported the delivery of a new multi-practice health centre integrated within a wider regeneration scheme including retail units and 51 affordable homes. The practice relocation required structural modifications to the existing building, including wall removal and the creation of infill areas above an open atrium. BSP's input enabled the successful reprovision of modern healthcare and community facilities while supporting the viability and coordinated regeneration of a key district centre.

Client LSP Developments & Assura Properties



Matt Hampson Rehabilitation Centre

BSP Consulting provided civil, structural and geotechnical engineering services on a voluntary basis for the award-winning Matt Hampson "Get Busy Living" Centre, a rehabilitation hub supporting people with catastrophic sporting injuries. Working collaboratively with a team of local partners, BSP delivered a cost-efficient, buildable design for the specialist facility, helping create high-quality therapeutic spaces that provide both physical and psychological support to beneficiaries. The project reflects BSP's commitment to social value and community impact through engineering expertise.

Client Matt Hampson



Newbury Place Health Centre, Salford

BSP delivered civil and structural engineering for the BIM Level 2 Newbury Place Health Centre, a purpose-designed primary care facility serving the Higher Broughton community. The scheme brought together four GP practices and multiple health and retail services within a culturally sensitive layout tailored to the needs of the local Orthodox Jewish community. On a challenging site infilled after wartime bombing, BSP engineered complex piling through obstructions and designed a fully suspended substructure to ensure long-term resilience. The project demonstrates BSP's capability in delivering technically demanding healthcare facilities on difficult ground.

Client Level Healthcare Ltd with Salford NHS Trust



King's Mill Hospital, Nottinghamshire

BSP provided civil and structural engineering support for the expansion and reconfiguration of emergency care facilities at King's Mill Hospital, delivered through phased works in a live clinical environment. The team advised on load-bearing walls, complex drainage alterations and below-ground service modifications beneath occupied areas, enabling new Ambulatory Emergency Care and Resus facilities to be constructed while maintaining hospital operations. The project highlights BSP's expertise in sensitive, fast-track refurbishment within acute healthcare settings.

Client Sherwood Forest Hospitals NHS Foundation Trust



Harlands Hospital, Stoke-on-Trent

BSP acted as civil and structural engineer for the multi-phase refurbishment and extension of Harlands Hospital, supporting the removal of dormitories, creation of ensuite inpatient bedrooms and development of a new Learning Disabilities unit. Working on a live, operational mental health site, BSP engineered structural alterations, new extensions and upgraded external areas to improve patient dignity, comfort and clinical functionality. The scheme demonstrates BSP's ability to safely deliver complex reconfiguration and expansion works within sensitive healthcare environments.

Client Staffordshire Combined Healthcare NHS Trust



The Poplars Hospital, Pontefract

BSP Consulting provided full civil and structural engineering services for the redevelopment of The Poplars Hospital, delivering a steel-framed, piled extension alongside significant internal remodelling. Working within a live clinical environment, our team designed efficient structural solutions that integrated seamlessly with retained facilities, coordinated complex service routes, and ensured minimal disruption to ongoing healthcare operations. The scheme demonstrated our ability to deliver safe, compliant and buildable designs on constrained, operational hospital sites.

Client South West Yorkshire Partnership NHS Foundation Trust



Glenfield Hospital – Mental Health Unit, Leicester

BSP provided transport engineering support for the new Mental Health Unit at Glenfield Hospital, a major redevelopment introducing modern adult acute wards and an urgent care hub. Our role included assessing existing access arrangements, developing safe and efficient traffic and parking strategies, and supporting planning submissions to ensure the scheme integrated smoothly with the wider hospital campus. The project highlights our expertise in healthcare estate upgrades, where careful coordination of movement, safety and operational requirements is critical.

Client Leicestershire Partnership NHS Trust

