An EBT Company

SDC Company Profile

Sectors of Operation

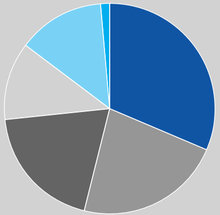
Contents

About SDC

SDC is a main contractor that undertakes projects across a variety of construction sectors, including research and development, commercial, manufacturing, automotive, healthcare, and education. Operating across such a diverse spectrum of sectors has enabled SDC to move with – and adapt to – changing market trends, which has resulted in controlled growth for the business. Indeed, the company is currently forecasting a turnover of £185m for the financial year ending September 2019 and £190m for the following twelve months. This sustained growth is aided by the fact that a large proportion of SDC's work is awarded on a repeat order basis from an extensive and ever growing base of blue chip clients.

Ever since the company was established in 1972, collaboration and teamwork has been at the heart of the SDC philosophy and represents one of the major factors that has contributed to the overall success of the business. This overriding philosophy, coupled with a reputation for problem solving, risk management, delivering on promises and offering best value, is a hallmark of SDC's culture – as reflected by the schemes shown opposite.

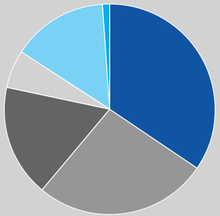
Financial Information



Year Ending September 2016

- Education & & Technical - £52.33m
- Commercial & Leisure - £37.00m
- General Industrial - £32.26m
- Student Accommodation - £19.71m
- Special Projects (works up to £3m) - £22.08m
- Other - £2.29m

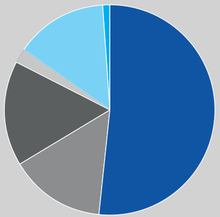
Total: £165.67m



Year Ending September 2017

- Education & & Technical - £57.11m
- Commercial & Leisure - £43.86m
- General Industrial - £28.08m
- Student Accommodation - £9.80m
- Special Projects (works up to £3m) - £24.11m
- Other - £1.67m

Total: £164.63m



Year Ending September 2018

- Education & & Technical - £96.37m
- Commercial & Leisure - £27.52m
- General Industrial - £30.26m
- Student Accommodation - £3.91m
- Special Projects (works up to £3m) - £26.66m
- Other - £1.77m

Total: £186.49m

Dun & Bradstreet Rating

3a1

Turnover

2016	2017	2018
£165,671,619	£164,632,273	£186,494,520

Net Worth

2016	2017	2018
£7,025,073	£8,153,387	£9,606,266

Operating Profit

2016	2017	2018
£1,083,959	£1,128,314	£1,865,280

Cash in Bank

2016	2017	2018
£14,537,181	£14,873,224	£15,232,730

Tangible Assets

2016	2017	2018
£3,064,096	£2,920,950	£3,507,459

Employee Benefit Trust Contributions

2016	2017	2018
£769,439	£840,949	£615,340

Our Staff

We are committed to the training and development of all our employees who, operating together in teams, safeguard the overall future and excellence of the company and ensure the successful delivery of our construction operations.

Our employees are our most important asset, their training and development being crucial to the successful delivery of our projects. We are investing in them to safeguard our future. Awarded the status of Chartered Building Company by the Chartered Institute of Building in 2010 in recognition of our high level of professionalism and integrity. All employees have the relevant CSCS qualification and are annually reviewed for their training needs. Additionally, in excess of 10% are management trainees, with their training leading to an appropriate professional qualification.

Operating safely is the construction industry's biggest challenge. We are responding with five fully qualified Safety Managers. In addition to safety advice given to project teams, the unit provides detailed safety training and is qualified to undertake the role of Principal Designer.

Community Fund

Whether it is through engagement with students to inspire future talent, making donations to organisations such as Bedford Rotary Club and the Bedford Blues, or creating employment opportunities for the local populace, SDC is working with local stakeholders in an effort to positively impact society.

The importance of SDC's community engagement programme was aptly summarised by Bedford Blues Director of Rugby, Mike Rayer: 'It is difficult to put into words just how important the support of local businesses is to sports clubs up and down the country and particularly to Bedford Blues. For us to be able to compete with and remain one of the top clubs in the Championship we do need assistance from local companies and we are so proud of the long-standing relationship (25 years) that we have had with SDC. The support over the years has been a tremendous help to us in achieving our goal of consistency, viability and being able to provide the best possible entertainment in Bedford on a Saturday afternoon.'

SDC an Employees Benefit Trust Company

Why an Employee Benefit Trust (EBT)?

In 2004, the founding owners (and only shareholders) of SDC announced to the Board of Directors that they wished to retire in the next few years. This threw everybody into confusion – not least the owners themselves – about the future direction of the business. Following considerable discussions with the shareholders about how they could realise their investment, the concept of the Employee Benefit Trust (EBT) emerged – the first of its kind in the British construction industry. Sale to a third party and a management buy-out were initially considered, but the only option that enjoyed universal attraction was a Trust. The idea of the EBT was to create a situation where no private shareholders existed within the business, thus increasing stability and protecting the long-term future of staff.

How the EBT Works

Over a period of almost three years, between 2004 and 2007, the Trust acquired the entire issued share capital of SDC (Holdings) Ltd with a view to retaining control over the SDC Group on a long-term basis. This also led to the establishment of a new constitution for the Company, which states:

The Trust has been set up for the benefit of its designated beneficiaries.

A beneficiary is a person who is directly employed by the Company or a subsidiary.

The purpose of the Trust is to promote an environment where all employees feel a sense of responsibility for the performance of the business, as well as a sense of pride in its achievements and results.

SDC an Employees Benefit Trust Company

The Trust's primary requirements is to protect the future of the SDC Group and that it remains profitable at all times.

The Trust will retain an element of the profits generated within the business to incrementally increase net worth each year, essentially protecting the financial strength of the Group, prior to the distribution of the remainder to designated beneficiaries.

Focusing specifically on how the profit distribution to staff works, an employee's entitlement begins from the moment the join SDC. Everyone is awarded the same percentage, which usually fluctuates 3 and 5%. Additional benefits include an improved pension contribution and more holiday entitlement based on years served.

Ethos the EBT Creates at SDC

The effect of the EBT has been to integrate the entire SDC staff as one unit working for the express benefit of the business. The sounds of 'it's our business', 'we're spending our money' heard throughout the Company are a very real sign that the EBT is achieving its primary objectives, a business owned by, and for all, its employees.

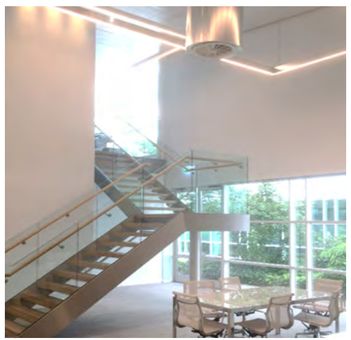
Stability of the Business Under the EBT

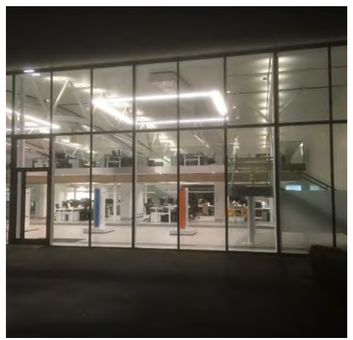
Finally, there have been tangible benefits in the formation of the EBT for SDC's clients, namely: No break up of the SDC business.

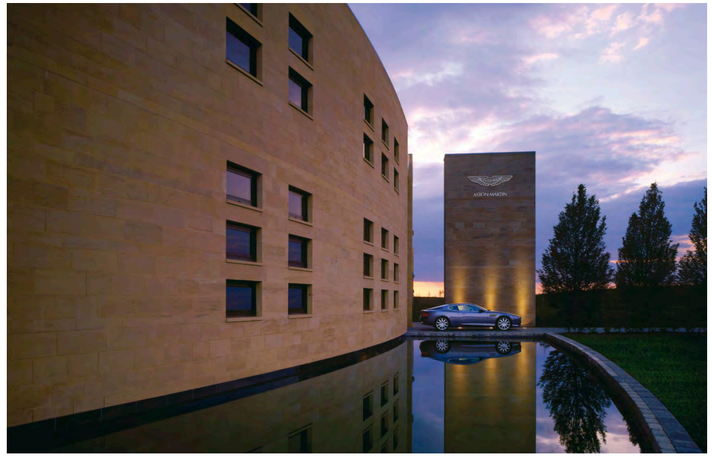
Automotive

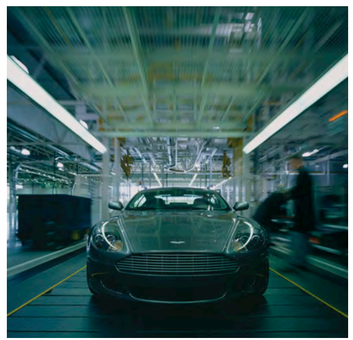
North Design Studio, Gaydon

This project comprised the design and construction of a class-leading Design Studio at Jaguar Land Rover's Research and Development site in Gaydon. The works involved the strip out of the existing studio before an extensive refurbishment that included the installation of a mezzanine floor, the construction of pits, modifications to M&E services and the upgrading of internal offices. As the works were located inside the occupied Design and Engineering Centre (previously constructed by SDC in 1992), all deliveries needed to arrive and be unloaded either before 7am or after 4.30pm in order to minimise disruption to JLR's staff.







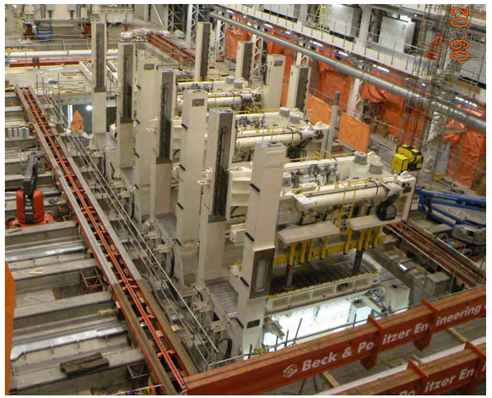


Manufacturing Facility, Gaydon

The dramatic architecture of Aston Martin's Gaydon home, plus the elegant materials used in its construction, reflect the design quality and finish of the cars themselves. According to CEO, Dr Ulrich Bez, 'It is probably the best facility of its type in the world and provides the perfect environment in which to produce and showcase innovative sports cars.' The initial facility comprised an 8,000 sq.m two-storey office block and customer reception area. The adjoining 35,000 sq.m. production building contains all the necessary processes to assemble the latest generation of Aston Martin models, including body build, precision measuring, paint shop, interior trim and final assembly.

Press Line D, Castle Bromwich

The work at Jaguar Land Rover's Castle Bromwich plant comprised the conversion of the existing Tool Room and C1 Annex buildings into a new Press Shop Extension. Both buildings required the existing roof to be removed and the existing frames extended vertically or completely replaced. Within Press Line D, a large pit was formed and new M&E installed. In addition, the project included the coordination of specialist production plant installation works, directly contracted by Jaguar Land Rover.



GDEC, Gaydon

This venue was designed to house the Rover Group's car designers. Split into a combination of building types, the first being an open plan office for engineers and the latter a design and workshop space for developing prototype models. The building is naturally lit and roofed with curved steel trusses that span wall-to-wall. The project featured passive fire engineering, an architecturally exposed structure, passive and active acoustic control, solar gain control and centralised energy centres and plant.

Block 62 Refurbishment, Solihull

The phased refurbishment of a 12,000 sq.m. facility to form an assembly and vehicle body storage building. Work began with roofing and cladding works on the first and second floors, while production remained operational on the ground floor. Upon completion of the second floor, JLR relocated operations to the top floor. The existing building, situated in the heart of Jaguar Land Rover's Solihull manufacturing plant, is three-storeys high and formally used as a paint shop.

BMW NG4-F Engine Plant, Hams Hall

The NG4-F Engine Plant is used for the manufacture and assembly of cylinder engines. Supplying production plants in Germany, Austria, South Africa, USA and Oxford, the engines power the BMW 1, 3 and X Series, Z4 Roadster and MINI petrol models. The facility is used to machine cylinder blocks, cylinder heads and crankshafts. An aspiration of the client was to have an absolute minimum of oil mist. This resulted in specialist plant exhausts, control panel ventilation and a displacement system which encouraged any hot or oil-laden air to rise up to be extracted safely away.

Special Vehicle Operations, Ryton

Client: Jaguar Land Rover **Value:** £3,300,000 **Duration:** 4 Months

This project comprised the design and conversion of an existing warehouse building into a new Special Vehicle Operations venue for Jaguar Land Rover. The Technical Centre, which serves as the car manufacturer's global centre of excellence for the creation of high-end luxury vehicles, was created to cater for JLR's most discerning and enthusiastic customers. As such, SVO's unique facilities feature a VIP customer commissioning suite for bespoke services and premium vehicle personalisation, as well as Formula 1-inspired flexible workshops and a specialist paint studio. The first vehicle to roll out of the new SVO workshop was the Jaguar F-TYPE Project 7, the most powerful and fastest production Jaguar to date. This is an exclusive product, with just 250 models being made available worldwide. Each F-TYPE Project 7 will start life at the company's plant in Castle Bromwich, before transferring to the Special Operations Technical Centre to complete the build by hand.

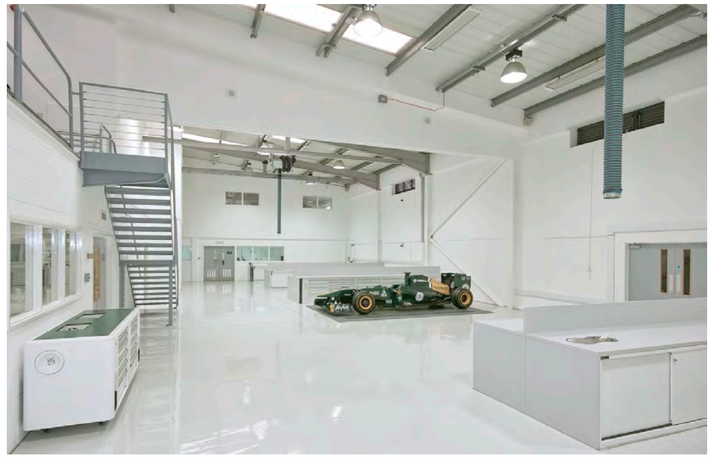
Classic Cars Building, Ryton-on-Dunsmore

Client: Jaguar Land Rover **Value:** £4,250,000 **Duration:** 6 Months

The development of this 14,000 sq.m. state-of-the-art facility allowed all of Jaguar Land Rover's Classic operations to be consolidated under one roof. The project delivered the largest facility of its type in the world, with dedicated showroom space and a workshop containing 54 bays for servicing and restoring Jaguar and Land Rover models. The workshop itself is organised into dedicated strip-down, remanufacturing and assembly zones for the Land Rover Series I, Range Rover Classic and Jaguar E-type Reborn restoration programmes, including an engine shop. It also houses the XKSS build line. Other works included the fitting out of the showroom and show areas, as well as the provision of a reception, sales areas, offices, amenity areas and a design studio on a mezzanine floor above.

Elms Mini/BMW, Cambridge

The 24-car BMW showroom boasts a premium undercover used car area and a high-tech service workshop, which includes an MOT centre, a tyre service and a cosmetic repair centre. There are also additional parking spaces for customers and a luxury café-bar. Photovoltaic cells and energy-efficient lighting boost the new building's green credentials. In addition, a separate 7 car MINI showroom was constructed adjacent to the BMW showroom. This building was designed to offer customers the ultimate MINI experience.



Leafield Technical Centre, Whitney

Extensive alterations, renovations and refurbishment to the existing Leafield Technical Centre to establish a new headquarters for the Caterham F1 Team. Undertaken in 3 months to create design offices, model shops, race bays, vehicle assembly and all support facilities including extensive M&E services upgrade and modification to provide complete up to date facilities for the F1 Team operation. One of the scheme's complexities was due to the client beginning the installation of facilities plant, equipment, fixtures and fittings before the end of the contract, with a view of commencing development and construction of a Formula 1 car. As such, it was imperative that SDC's work caused minimal disruption to other activities on the site.

CEME, Dagenham

The construction of a 25,000 sq.m. development to provide the 'Centre for Engineering & Manufacturing Excellence' (CEME) in Dagenham. The expansive building includes two-storey workshops, teaching areas, conference facilities and a two-storey 'Streetway' containing cafés and small retail outlets. The client for the scheme was a Joint Venture Company comprising directors from Ford Motor Co., Havering and Barking Colleges of Further Education and Heart of Thames Gateway Ltd.

Xtrac Headquarters, Thatcham

SDC constructed this headquarters building for a world leader in motor sport gearboxes, Xtrac. Previously operating from four separate units, this building brought together the research, development and manufacturing departments into a single purpose-built venue. Carried out under a design and build contract, the project provided a reception area, offices, meeting rooms, workshops, design studios and a detailed manufacturing facility.

Virtual Wind Tunnel, Enstone

A unique underground venue containing new offices, a technology data centre hub and visitor centre for the Renault Formula One team. Closed at one end and fitted with panoramic glass curtain walling at the other, the buried structure utilised pre-formed concrete tunnel sections. The giant tunnel, which comprises 25 rings of pre-cast concrete normally used in bridge construction, is highly sustainable and provided a dramatic working environment for the F1 team.

Diesel Business Centre, Dagenham

This project combined a refurbishment of a factory unit with the construction of a two-storey office building. The facility has the capacity to produce over 2,500 engines per day. SDC also converted a 3,200 sq.m disused industrial building to form a Product Development Area, containing laboratories, testing rooms and workshops. The new Dagenham Diesel Centre was commissioning with the intention of being the vanguard of Ford Motor Company's global diesel engine engineering and manufacturing capabilities.

Commercial

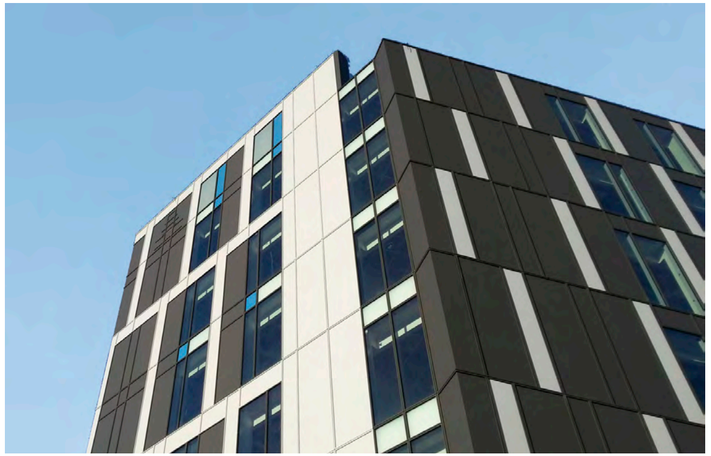
Unit 22 and Unit 25, Cambridge Science Park

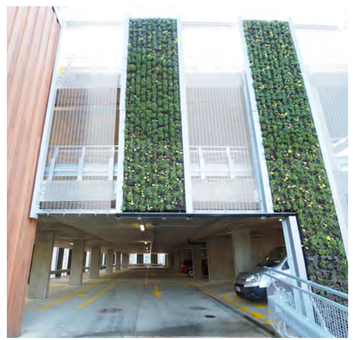
Client: Trinity College and TUS Park **Value:** £40,000,000 **Duration:** 18 Months

Unit 22, visibly squarer from the front, involved the construction of a 3-storey speculative building with plant on the roof. The building provides approximately 60,500 sq ft of Cat A office space and has an elevated entrance and podium that provides the link to other buildings and businesses on the park. Unit 25, or the Bio Innovation Centre, involved the construction of a state-of-the-art Bio hub facility which providing laboratories, B1 office space and write up space. Unit 25 also houses a stunning reception area which leads to a café. Both Units 22 and 25 provide office and laboratory space for early stage Bio Tech and Med Tech companies and have been designed for tenants on a floor-by-floor basis, but with the added flexibility to accommodate multiple tenants on each floor. The exteriors of both buildings are comprised of curtain walling, glass façades and chamfered bays to create key features at the building corners. The building also has metallic panels and fins for solar shading. The project achieved a BREEAM 'Excellent' Award.

Cambrian Centre, Newport

This development is located around the existing Cambrian Centre and adjoins a multi-storey car park on Cambrian Road. The project required SDC to design and construct a seven-storey office building, retail units and lower ground floor car parking, partly within an existing shopping centre. The completed project delivered a net lettable floor area of 7,500m2, accommodating 1,200 staff with 230 car parking spaces. Works involved the demolition of existing buildings to prepare the site for the new development, before installing piled foundations to support the reinforced concrete frame structure. Following completion of the works, SDC was awarded with Admiral's 'Supplier of the Year' accolade.





Project Sapphire, Cambridge

A four-storey 'shell and core' building containing a double-height reception space, a feature atrium stair and, at each floor level, secondary stair cores and W.C. areas. Although the building use is predominantly tenanted office space, the client's brief required provision for future change of use of the building to laboratories and write up areas. Therefore, the M&E plantroom, located on the third floor, provides systems and space for both uses. In addition to the above, the project also comprises a multi-deck car park and a further car park extension, constructed on land opposite the main building. The building achieved a BREEAM 'Very Good' rating.

British Racing Drivers' Club, Silverstone

A spectacular headquarters building that reflects the status of the British Racing Drivers Club as the most prestigious organisation in the motor racing world. Facilities include a management suite, conference room, reception, bar and dining area. Curtain walling was used for the entire trackside elevation together with a canopied viewing balcony providing outstanding views of the circuit from Bridge Corner to the former start/finish line.

NIAB Visitors Centre, Cambridge

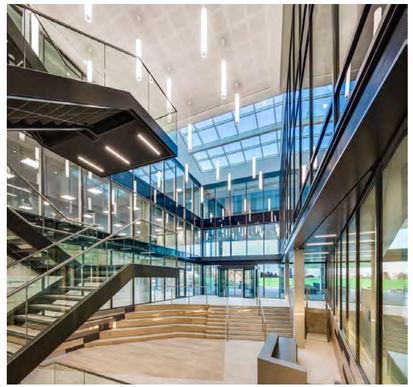
A Visitor Centre comprising a seminar room, reception area, meeting room, kitchen area and toilet facilities. The main structure features glulam timber 'trees' with cross laminated timber panels, zinc sheet roof finishes, cedar boarding wall cladding and windows of aluminium clad timber. The centre incorporates cement replacement and recycled aggregates in the foundations and external works, an 'E-stack heat recovery ventilation system, a large array of PV panels, biomass boiler, green roof and rainwater harvesting system.

Innovation Centre, Harwell

The Innovation Centre is designed to accommodate expanding businesses in fully equipped office units. In addition to the office space, the venue housed a shared reception area, cafeteria and toilet facilities. Other works included associated car parking and soft landscaping. In May 2013, Catapult Satellite Applications took sole occupation of the venue and the building now contains a Spark Centre, SatComms Lab, Visualisation Suite, Operations Centre and a 3D HD Dual Projection Facility.

Innovation Way, Peterborough

This state-of-the-art three-storey office building for animal feed supplier AB Agri was designed with the environment in mind. Materials used for cladding and insulation are 100% recyclable and energy efficient, to help reduce the buildings overall carbon footprint. The extensive use of low level opaque glass maximises natural daylight, with a brise-soleil system to prevent heat build-up and consequently the need to cool the building, while a rainwater harvesting system is used to flush the toilets.



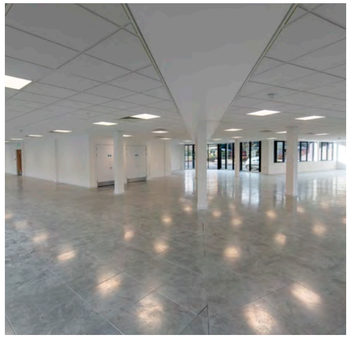
Unit 26-27, Cambridge

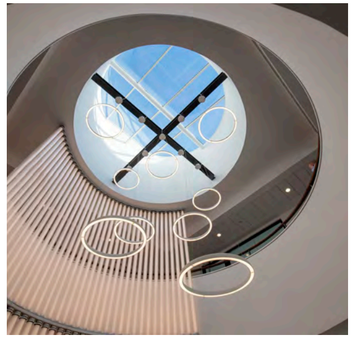
Client: Trinity College **Value:** £18,000,000 **Duration:** 20 Months

A three-storey high-specification office development on the Cambridge Science Park combining the delivery of a post-tensioned concrete frame, clad with a mixture of curtain walling and rainscreen cladding. The building comprises integrated car parking at the lower-ground floor level and a feature podium at the entrance. Situated near the front entrance of the park and designed by London based architects Scott Brownrigg, the concrete framed building exudes a sleek appearance aimed to attract companies dedicated to scientific and technological research. The first tenant of the building is video-game developer, Frontier.

Unit 306, Cambridge

Situated on the world-famous Cambridge Science Park, this project for Trinity College involved the demolition of an existing entrance structure and construction of a new two-storey extension to create a more centrally located ‘front of house’. In addition, refurbishment and repairs were carried out to the existing building, reverting the specification back to the Landlords CAT A standard. Externally, works were carried out to the car park to create additional disabled spaces along with the installation of cycle racks to encourage staff to journey to work by bicycle.





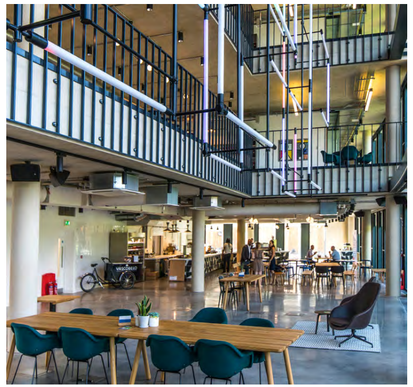
Steinmetz Building, Granta Park

Centrally located on Granta Park, Cambridge, this scheme, known as Project Welwyn, involved the extensive refurbishment and reconfiguration of existing offices into high specification laboratories and technical support space. Formally known as the Flowers Building, works involved the complete strip-out of all internal areas, a two-storey ‘front of house’ extension, a steel framed roof top plant room and upgrades to M&E services. Undertaken as two separate contracts (Shell & Core and Fit-Out) which overlapped to fit a robust 44-week programme, the three-storey structure provides its new tenant, Heptares Therapeutics, with approximately 4,257m2 of state-of-the-art laboratories, open plan offices, meeting rooms and breakout areas. Externally, works involved increasing the existing car park by 120 spaces.

The John Bradfield Centre, Cambridge

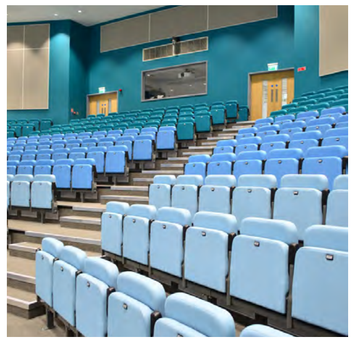
Client: Trinity College **Value:** £20,000,000 **Duration:** 15 Months

Located in the heart of the world-famous Cambridge Science Park, The John Bradfield Centre has been purposely designed to encourage collaborative working and innovation through its use of open plan offices and communal networking areas. Named in honour of Sir John Bradfield, a Senior Bursar at Trinity College who was instrumental in the creation of the Science Park, Bradfield saw that establishing links between the University and the technology sector was fundamental to the Park's success, which is now home to more than 5000 entrepreneurs and innovators across 90 companies. Designed by London based architects Aukett Swanke, this three-storey state-of-the-art building covers 4,000 sq.m and is curved to match the geometry of an adjacent lake. Internally, the facility provides 70 glazed office pods, a 100-seat auditorium, café, retail units, meeting rooms and large breakout areas.



NAPP, Cambridge

The development comprised the construction of three buildings, with a footprint of 11,150 sq.m., linked at the first and second floor by enclosed bridge structures, with associated external hard and soft landscaping. Although awarded under one contract, the scheme was split into base build and fit out. The base build section was for the landlord, Trinity College, and was valued at £24.5m, with the fit-out directly for NAPP valued at £5.5m. The envelope of the building is predominately a high specification glass facade with feature sections of mesh, rainscreen and structural glass walls. Brise soleil was included to the south elevation.



B66 Conference Centre, Rothamsted

The B66 Conference Centre at the Rothamsted Research Campus is an international hub capable of hosting world-class science gatherings and commerce-academia partnering events. The Conference Centre was created by extending Lewis Hall, a venue originally constructed in 1983 that fell well below the standard expected by international audiences. The extension provides 3,892 sq.m of space and is occupied by a 300 seater auditorium, offices, a seminar room, meeting rooms, catering facilities and toilets. Rothamsted Research Centre has a long history of engagement with the local community in Harpenden and the surrounding area; on the same basis that they have opened their doors in the past, it is envisaged that the new venue will be made available to local schools as well as hosting musical events, cinema clubs, and one-off business events.

B67, Rothamsted

SDC was tasked with delivering a Shared Facilities Building capable of bringing together researchers, companies, investors and entrepreneurs. With this in mind, the internal layout is arranged around a central circulation ‘street’ that is designed to encourage the building’s occupants to interact using informal breakout and meeting spaces. Laboratories and offices are located to the north and south of this street, providing research facilities for the agricultural science campus.

DS Smith Impact Centre, Newmarket

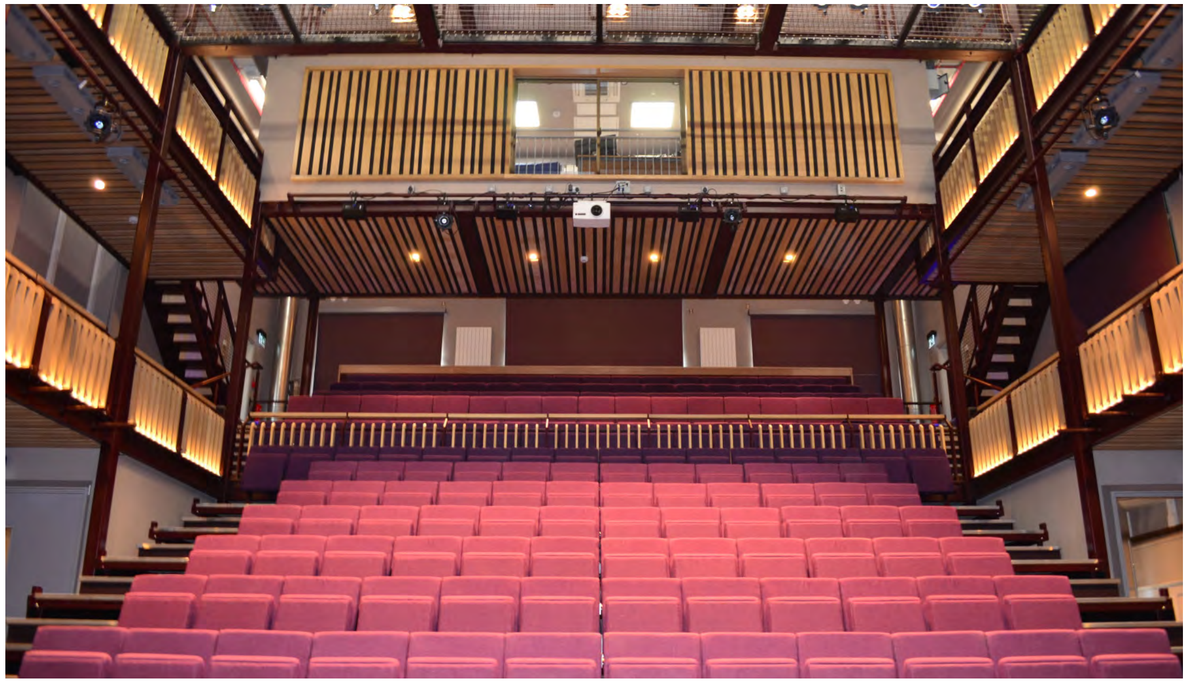
This iconic building provided DS Smith with a bespoke Marketing and Training Centre that contained offices, meeting rooms, a supermarket training environment, ancillary facilities and a car park for 45 vehicles. The building itself is constructed from a steel portal frame, clad in a combination of rendered blockwork and microrib composite panel, and topped with a standing seam roof that curves in several directions.

Greenwich House, Cambridge

Greenwich House and its Annexe were built in 1989 specifically for the Royal Greenwich Observatory (RGO). Since 1998 Greenwich House has been used by the University of Cambridge and Cambridge Display Technology. In 2014, the University decided to extensively refurbish the building in preparation for the arrival of their Unified Administrative Service. The scheme, which focused on the adoption of environmentally sustainable principles, delivered open plan offices, meeting spaces, training rooms and café facilities.

CCL Refurbishment, Cambridge

Three phased refurbishment involving the creation of open plan offices, a three-storey mezzanine to form offices, refurbishment of six existing laboratories, and formation of new toilet facilities. The vision was to provide an improved working environment for staff and to increase seat numbers to cope with the expansion of the business. The environment within the main atrium space was to be improved, with works to the external fabric designed to reduce energy consumption and increase occupant comfort.



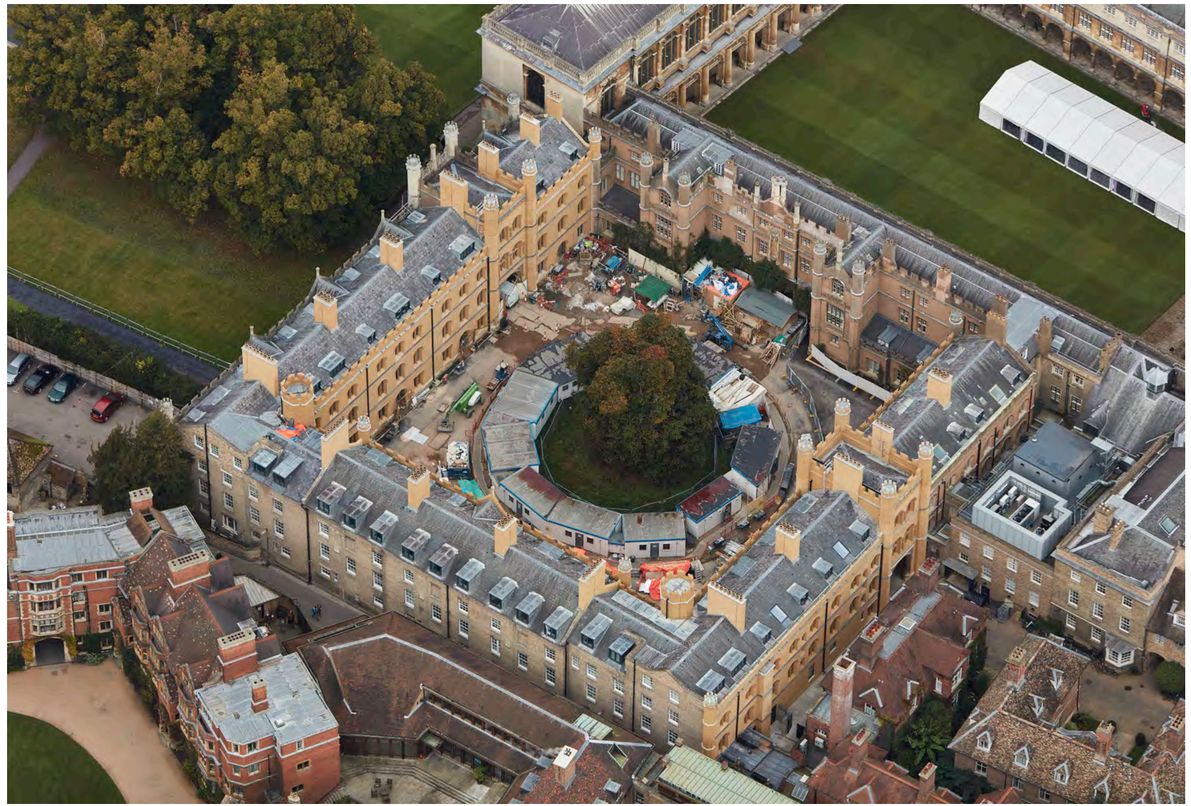
Conservation & Listed Buildings

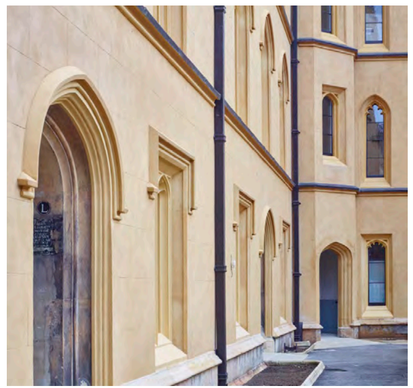
Quarry Theatre, Bedford

The project comprised the renovation and conversion of the Grade II listed chapel into a 300 seat galleried theatre and restoration of a listed Minister's House to provide front of house facilities, offices and a congregation hall. In addition, a new single-storey rear extension containing a foyer, bar and back stage facilities was added, radiating around the apsidal end of the chancel and opening onto a landscaped garden. The theatre itself is a flat-floored flexible studio space that was created by inserting a new steel structure within the volume of the existing church. A balcony was retained but extended forward and re-tiered to provide good sightlines to the stage area and two levels of new galleries were inserted at the sides, together with high level suspensions for scenery and stage lighting.

Museum of Archaeology and Anthropology

The Museum of Archaeology and Anthropology in Cambridge has one of the most important collections of its kind in the UK. MAA's collections span nearly two million years of human history and have been obtained from all six inhabited continents. The oldest object is a 1.8 million year old stone tool from Olduvai Gorge, whist the newest are made by contemporary artists. Given the nature and age of the artefacts stored in the museum it is critical that they are stored in a closely controlled and monitored environment. With the help of the company's in-house M&E Department, SDC procured and managed the installation and commissioning of the building services systems, whilst ensuring that the stringent design criteria for temperature and relative humidity were met. The roof was also replaced as part of the project and the ground floor exhibition space completed refurbished.





New Court, Cambridge

Client: Trinity College **Value:** £20,000,000 **Duration:** 16 Months

The refurbishment of Trinity New Court entailed the substantial upgrade of the internal and external fabric to reduce energy consumption and carbon emissions by 75% and 88% respectively. Work included the replacement of existing service installations and the introduction of new sustainable technologies, along with thermal improvements to the walls, floors, roof and windows to comply with current building regulations. However, with New Court being a Grade I listed building, it was imperative to re-use existing materials rather than installing modern alternatives. Consequently, SDC established carpentry workshop in Caxton – on the outskirts of Cambridge – to provide a controlled facility for refurbishing the 200-year-old joinery items (window frames, doors, floor boards, etc.) before returning them to site for re-installation.

Kettle’s Yard Looking Ahead, Cambridge

Client: University of Cambridge **Value:** £6,000,000 **Duration:** 21 Months

Kettle’s Yard is an art gallery set within four converted Grade II listed cottages and a substantial 1970s extension in the heart of Cambridge. Despite being a popular tourist attraction, with approximately 85,000 people visiting each year, the gallery was beginning to fall below modern standards due to its inflexible layout and poor condition following a series of piecemeal extensions. Thus, SDC was appointed to carry out large-scale alterations to improve the layout of Kettle’s Yard and enhance the support services for visitors. The work involved the substantial demolition of 4-8 Castle Street and its replacement with a four-floor education wing, improved exhibition galleries, a new entrance and a café – all set behind a retained façade. The demolished structures were replaced by an in-situ concrete framed building, spanning from basement to second floor level, and the retained cottages were completely remodelled.

Hypocaust Verulanium, St Albans

This project required the construction of a new visitors centre to enclose the mosaic floor from an ancient Roman house in Verulanium Park. The galvanised steel floor and roof structure sits on mini piles and is clad with GRC concrete panels embedded with oyster shells. Inside, the floor comprises pre-cast concrete floor panels with plywood clad timber framed walls. Externally, hard and soft landscaping was undertaken to include a new footpath to the buildings, as well as cobbled filled gabion retaining walls.

Cintra House, Cambridge

The works consisted of refurbishing a listed five storey office building for the Open University. The renovation included the strip-out and replacement of mechanical and electrical services, remodelling the layout to provide an open plan environment, a new reception area, meeting rooms and a café. The most notable feature of this scheme was the restoration of the romantic style façade and front entrance, originally constructed in the mid-19th Century.

School Cricket Pavilion, Bedford

This project involved the careful refurbishment and extension of a grade II listed building, constructed in the 1930s. Conducted over two phases, Phase One, carried out during the summer holiday break, delivered new changing facilities and an impressive honour's room. Phase two involved the modification of the remaining half of the pavilion, as well as constructing a two-storey extension. The building was rarely used before the works, but now serves as a hub for all sporting activities and private functions.

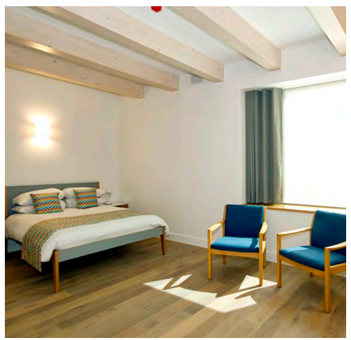
Castle Quay, Bedford

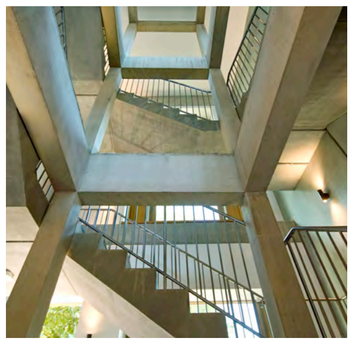
The Castle Quay Development was a seven-storey development consisted of four in-situ concrete framed blocks to provide 104 apartments, eight retail units and three restaurants. Part of the site is within the curtilage of a Scheduled Ancient Monument and six months of archaeology preceded the commencement of the construction works. The completed scheme includes the Castle Bailey Gardens, a public park which displays the excavated foundations of the original Norman Hall on the site, and an excavated 12th century lime kiln.

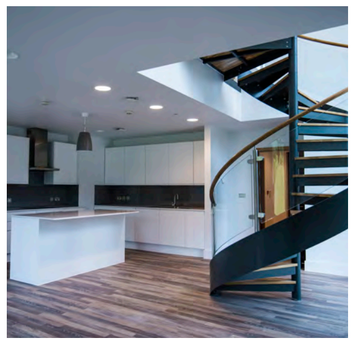
Education

Cowan Court, Churchill College

Cowan Court is a three-storey student accommodation building with curved elevations, providing 68 study bedrooms, 3 fully accessible rooms, 4 shared kitchens on each floor, a large open plan meeting room, basement storage and plant room spaces. The construction is a combination of pre-cast concrete beam and block floor with timber walls supporting a ‘double grid’ of joists. The primary joists are glulam beams, which span from the external to the courtyard façade. In addition, each bedroom features a bathroom pod that was pre-fabricated off-site. However, what makes this project most unique is that the external elevations are clad in reclaimed oak from former French railway carriages. Cowan Court won the ‘Best Large New Building’ award in the Cambridge Design and Construction Awards, as well as well as being ‘Highly Commended’ at the 4th Annual Wood Awards.





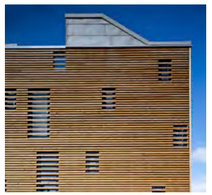


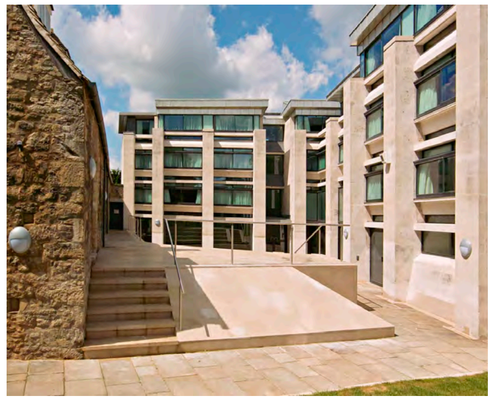
Boarding House, Wycombe Abbey

The project provided boarding accommodation for 108 girls and eight members of staff across two houses: North and South. The two interconnected houses contain distinctly different, but complementary, characters. Nearest to the core of the campus is ‘North House’; this connects to ‘South House’ and together they define an ‘L’ shape with communal recreation space for the girls, private gardens for the house mistresses, and shared gardens for the more junior staff. The houses, which are arranged over four-storeys, also contain a drawing room, MONS room, rumpus room and kitchen for each house along with study spaces for every girl including day boarding girls and shared music practice rooms.

St Catherine's College, Cambridge

The project comprised the construction of Student and Fellows accommodation for St Catherine's College using a Cross Laminated Timber (CLT) frame. The timber was obtained from a FSC certified source, with the by products from the panel manufacturer being used for the production of wood fibre boards. The environmental and sustainable credentials were further enhanced through the inclusion of solar panels and a green roof.



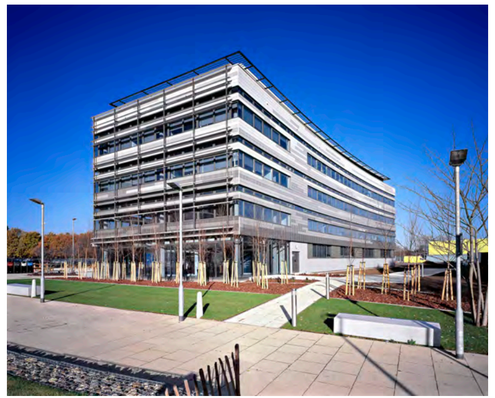


Blue Boar College, Oxford

This project for Christ Church College in Oxford comprised two parts. The Blue Boar Quadrant was reconfigured to provide 73 study bedrooms, including additional study rooms added at roof level, plus a lecture theatre created in a double-height basement. The Brew House refurbishment involved the conversion of Grade II listed building into an Archive Store. SDC worked closely with Conservation Architects to carefully remove the roof and dormer windows, along with the timber flooring, whilst protecting the existing timber frame.

Histon Road, Cambridge

This scheme involved the construction of a student centre for Lucy Cavendish College. Located one mile from Cambridge city centre and approximately 10 minutes' walk from the main campus, the centre contains 59 en-suite rooms, four one bed flats, a laundry room, plant room and server room, together with a social space and landscaped gardens.



University Health School, Chelmsford

The five-storey state of the art facility revolutionised the delivery of health and social care training at the University. For example, the building provides simulated clinical environments intended to enable students to have the opportunity to gain 'hands-on' experience in a variety of acute and community settings. Furthermore, as well as four mock hospital wards, the building contains an intensive care setting, a radiography suite and a classroom where people can learn and improve their face-to-face communication skills.

Dorothy Garrod Building, Cambridge

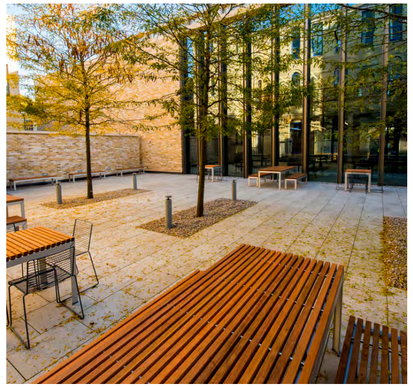
Client: Newnham College **Value:** £21,000,000 **Duration:** 17 Months

This project involved the demolition and partial demolition of the Strachey and Fawcett buildings, with a four-storey student accommodation building constructed in its place. Named after Dorothy Garrod, the first female Professor at Cambridge, the building encompasses a café, conference and office facilities on the ground floor, 90 en-suite bedrooms over the first and second floors, and a gym, meeting room and penthouses on the upper floor. One of the standout features of this prestigious project was the masonry package, with the façade constructed using a handmade Northcot Sidgwick blend and natural cement lime mortar. There were nine different shaped bricks in total laid in a variety of bonds, including Stretcher, English Garden Wall, Dogstooth and Hit and Miss panels.

Judge Business School, Cambridge

Client: University of Cambridge **Value:** £22,000,000 **Duration:** 15 Months

Prior to SDC's appointment, Cambridge Judge Business School was no longer considered fit-for-purpose due to insufficient space and a lack of appropriate facilities. To rectify this problem, a 4,790 sq.m. four-storey extension was conceived to unify the School on the existing site between Trumpington Street and Tennis Court Road, returning staff and students to one location thanks to the inclusion of generous teaching, office and breakout spaces. The extension is a stunning addition to the old Addenbrooke's Hospital site, responding to the character of the original nineteenth century building using a combination of brickwork and stone columns. The envelope also incorporates 60 heat-recovery ('Trox') units to create a 'breathing façade' that supplements the natural ventilation strategy. This use of the Trox system was the first of its kind in the UK and contributes to the building's BREEAM Excellent rating.



Beech Court, Abingdon School

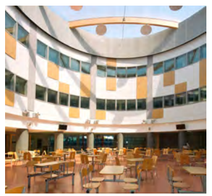
This two-stage project comprised the design and construction of a three-storey building for Abingdon School to provide space for the sixth form and art department. The steel-framed structure, which complements the School's historic estate using a combination of high-quality brickwork, zinc cladding and curtain walling, contains a mixture of classrooms, a centre for independent learning, meeting rooms and open plan social areas. The scheme also included the formation of a driveway and construction of a garage in the Headmaster's garden (Lacies Court), along with a new opening formed through an existing boundary wall onto Bath Street to allow vehicular access.

Science and Maths Block, Kimbolton

Prior to 2014, Kimbolton School had twelve dedicated Science classrooms, most of which were over 50 years old and split over two sites. Recognising that these spaces were inadequate in size and layout for modern science teaching, and with the subject becoming increasingly popular amongst pupils, the School employed SDC to construct a new wing containing twelve dedicated Science classrooms and five Maths classrooms with support areas. The facilities provide much improved accommodation, with enhanced toilet facilities, storage rooms and dedicated work rooms for the science teaching staff. Upon completion of the main project, SDC converted the existing Science classrooms into new Geography, Art, Textiles, SEN and Food Technology classrooms.

Quad One, Harwell

Quad One is a linear block that comprises three-storeys of accommodation for small and medium enterprises. Housing offices, laboratories and meeting spaces, the primary function of building is to provide flexible research facilities that caters for a wide variety of prospective tenants. The Pavilion, meanwhile, is orientated north-south and positioned on the eastern edge of Quad One. The single-storey structure is an amenity building that incorporates a gym and café for the campus-wide community.

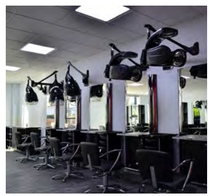


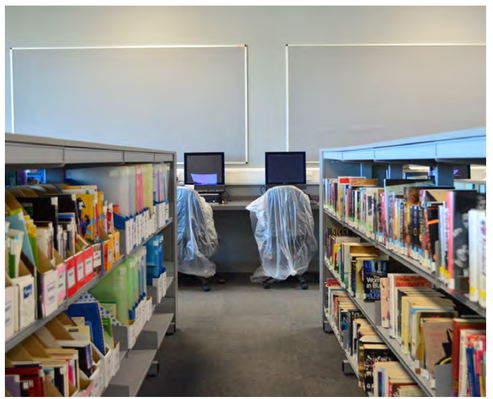
Booth Lane Campus, Northampton

Blocks C, D, E and F were built alongside the existing campus, with the College moving into the new structure upon completion. SDC then constructed Blocks A and B. The project achieved a BREEAM rating of 'Very Good' thanks to innovative passive design measures and a range of low-carbon technologies. Facilities included classrooms, ICT suites, lecture theatres, a library, workshops, a cafeteria, restaurant, underground recording studios, a sports hall and a TV station.

Lower Mounts Campus, Northampton

Lower Mounts is a four-storey reinforced concrete frame structure featuring basement and ground floor car parking, terracotta curtain walling and polished blockwork rain screen façades, polymeric roof coverings. Internally, the building enhanced Northampton College's teaching services through the provision of specialist IT facilities, general classrooms, plus ground floor specialist hair & beauty teaching facilities and restaurant accessible to the general public. A BREEAM rating of 'Very Good' was achieved.





Daventry Campus, Northampton

The construction of a cutting-edge higher education facility for Northampton College following the demolition of an old sports hall and a number of ancillary buildings. The upgraded facilities include specialist workshops for engineering, science laboratories, a state of the art library, contemporary hairdressing and beauty therapy salons, well-equipped ICT suites, teaching space for healthcare and childcare plus dedicated provision for students with learning difficulties and disabilities.

Industrial

Alpha Park, St Neots

Phase one was for the design and build of a 22,000 sq.m. steel framed warehouse/ storage building with two-storey open plan offices currently occupied by Cath Kidston and Hotel Chocolat. The project was delivered with significant input from specialist sub-contractors, utilising industry best practice for this type of building. SDC successfully achieved a build programme of 29 weeks (including a three week period for significant contamination clean-up). Following the resounding success of Phase one, SDC negotiated a 10,000 sq.m. manufacturing facility with associated office space, car parking and landscaped areas. SDC went on to build the B&Q retail warehouse adjacent to the site.

Meteor Park, Birmingham

Meteor Park, located under Spaghetti Junction, is a mere three miles from Birmingham City Centre. The site was extremely contaminated and required substantial ground remediation prior to construction works commencing. All soil was treated on site, which avoided disposing any in specialist tips. The development itself contained four main warehouse units, which totalled 21,000 sq.m. Each building featured a ground floor reception and warehouse areas with office space directly above.

The Welding Institute, Cambridge

Client: The Welding Institute **Value:** £32,000,000 **Duration:** 13 Months

A comprehensive redevelopment of The Welding Institute's site to create a series of new structures connected to the main Bevan Braithwaite building by a link street. The three buildings, with a combined floor area of 25,000 sq.m., are occupied by a mixture of B1 (Research and Development) and D1 (Educational and Training) spaces. Building One houses a reception, restaurant with 300 covers, kitchen, conference facility, library, lecture theatre, café, and office accommodation. Office areas are designed with flexibility in mind and can be easily subdivided to suit current company and departmental requirements. Building Two is almost identical to Building One, but houses laboratories, teaching spaces, PHD write-up areas and office accommodation. Finally, Building Three is an Engineering Hall formed of three 72.5m x 22m wide bays capable of accepting high level cranes.

Hanson Brickworks, Measham

This project provided a 27,000 sq.m. brick manufacturing facility. As the project was situated in a previously filled quarry, extensive enabling works were required prior to the construction of the facility. The enabling works involved lifting and crushing 20,000 sq.m. of existing concrete and tarmac hardstanding for incorporation within the works as a piling mat and as capping within the externals. Following this, the reduced level dig involved 11,000m3 of bulk earthworks.

Chancery Gate Units, Various

SDC constructed four separate business parks for Chancerygate, a leading industrial and warehouse development company in the UK. 33 new industrial units with associated office space in Milton Keynes, 20 industrial units with associated office space in Kidlington, 15 new industrial/ warehouse units, with associated office space for each in Colnbrook and three blocks of warehouse/ industrial buildings comprising 10 units in Oxford.

Hanger 61, Luton Airport

This project for Thomson Airways offered two major improvements to Hangar 61. Firstly, the creation of a new glass panelled staff entrance with canopy, and secondly, the construction of a building to house four lifts that will be used for parts storage and retrieval. Other works involved the installation of stairways and the installation of resin floors throughout.

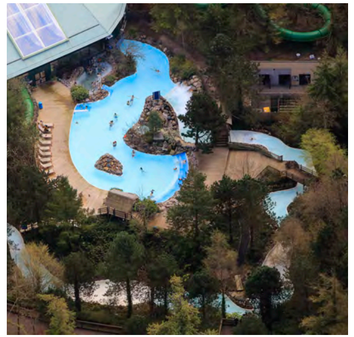
VW Training Facility, Milton Keynes

SDC was appointed for alteration works to the existing buildings at the VW Training Facility in Milton Keynes. The project included the design and construction of 3 ground floor workshops, plus steelwork to form a balcony walkway at first floor level to Classrooms 19, 20, 21 and fit-out of existing fallow area to create 1st floor Male WCs. The result was an improved working environment and a bright, modernised, aluminium cladded space for showcasing their products.

Leisure

Project Atlantis, Longleat

Nestled between the trees at Longleat Forest stand the latest additions to the Center Parcs portfolio, namely the Tropical Cyclone and Typhoon water rides. Constructed under the codename Project Atlantis, Tropical Cyclone is the largest interactive two-to-three-person raft ride in Europe, while Typhoon is a smaller variant suitable for one-to-two riders. On a tamer note, SDC also revamped the Subtropical Swimming Paradise to incorporate a family water play area (Venture Harbour) – featuring slides and giant tipping buckets – and a toddler splash zone (Venture Bay) with a toddler pool and water spouts.



Dome Refurbishment, Longleat

An ambitious project to re-roof The Plaza building at Center Parcs Longleat Forest, Wiltshire. The Plaza was constructed in a dome shape in 1993, using a glulam primary arch structure to support a series of glazed panels. Inspections in 2010 revealed that large areas of glazing had either cracked or moved within their retaining seals, while the glulam beams beneath were also beginning to show signs of wear. This led Center Parcs to conclude that the existing system, although suitable at the time of the original installation, required intensive refurbishment and that replacing the roof with a new covering was more viable than commissioning extensive repairs. Instead of glass, the new roof structure would comprise an insulated structural deck covered with a single ply membrane and ETFE triple layer cushions.

Sports Centre, St Albans

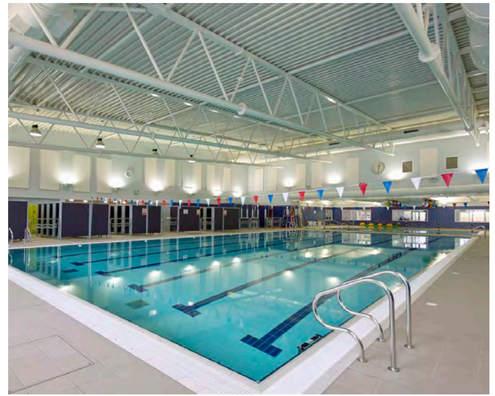
An iconic sports facility within the historic grounds of St. Albans School. The Sports Hall and Swimming Pool buildings are linked by a glazed two-storey flat roofed section. The facilities include a reception area, fitness suite, dance studio, classrooms, climbing wall and changing facilities. The project was logistically challenging with restrictions on delivery vehicle widths and constraints on delivery times. The former gymnasium was then converted into a kitchen, refectory and classrooms.

Leisure Centre, Bletchley

The centre featured a 25m competition pool with wet and dry facilities, a multi-use sports hall, indoor bowls rink, four squash courts, an extensive fitness suite, catering facilities and a multi-storey car park. In addition, a wide range of renewable technologies were included to improve the energy efficiency of the building, which helped the venue win the 2010 National BREEAM Bespoke Award in recognition of its Excellent rating – the first leisure centre in the world to achieve such a feat.

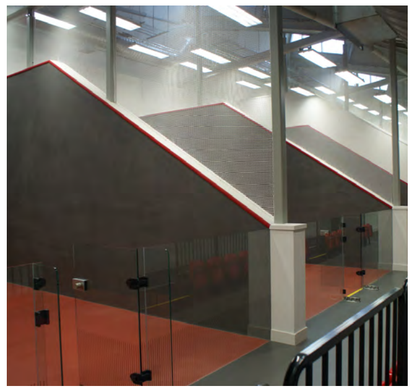
Leisure Centre, Wolverton

The building features a 25m six lane swimming pool, learner pool, state-of-the-art fitness facility containing a 65 station gym, two aerobic studios, luxury changing rooms, a steam room, sauna and café area with access to an external terrace. The project was built to a BREEAM ‘Excellent’ standard and utilises a biomass boiler, rainwater attenuation and natural ventilation.



Lee Valley White Water Centre, Enfield

This project delivered an extension to the Lee Valley White Water Centre that contained a state-of-the-art gym and physiotherapy suite, additional office space and meeting rooms for the British Canoe Union. A stylish new pavilion was constructed overlooking the Olympic standard competition course. This venue houses a new outdoor classroom, additional catering facilities and changing rooms. Remodelling of hard and soft landscaping were incorporated, including viewing mounds with integral seating along, plus new planting and seeding.



University Sports Centre, Cambridge

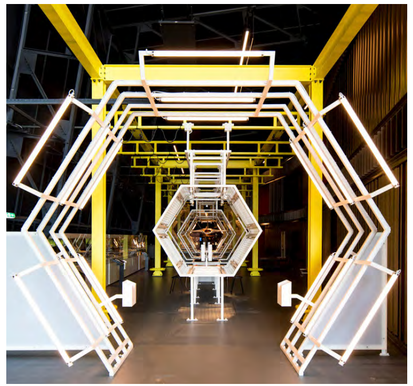
Client: University of Cambridge **Value:** £9,600,000 **Duration:** 14 Months

The University Sports Centre in West Cambridge marks the first phase of a comprehensive strategy for enhancing the University of Cambridge's sporting infrastructure. Designed by Arup Associates and constructed by SDC, this iconic venue welcomes patrons into a grand lobby housing a lounge, audio-visual space and a café. From this area, a spacious fitness suite containing a full range of state-of-the-art cardiovascular equipment, is viewed through an elegant glass partition. The Centre also has an eight court sports hall, plus an impressive strength and conditioning room, the latter featuring numerous free-weight platforms and a two-lane plyometric track.

Hangar 1 Refurbishment, RAF Museum Hendon

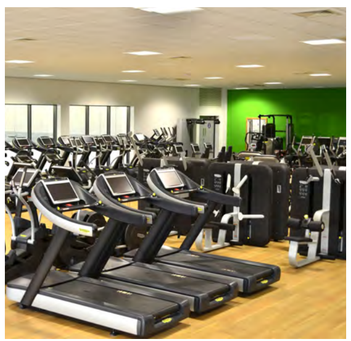
Client: RAF Hendon **Value:** £7,500,000 **Duration:** 14 Months

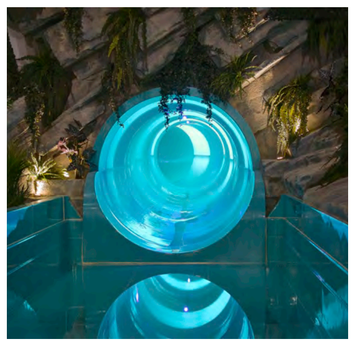
In preparation for the RAF's centenary celebrations in 2018, SDC was tasked with refurbishing Hangar 1 at the RAF Museum in Hendon. The works included the internal upgrade of the museum's main hangar, with construction taking place around a Sunderland Flying Boat that remained in place throughout the project. The highlight was the addition of a large, central mezzanine that acts as a building within a building, creating an enclosed space for meetings with display areas above. Elsewhere, a restaurant was demolished and a sliding access door was added to improve access when moving display items. SDC was also responsible for site-wide landscaping, external works and the construction of a car parking area.



Leisure Centre, Flitwick

In 2013, Central Bedfordshire Council adopted a leisure strategy that set out a vision to improve sporting facilities across the region, with a new venue at Flitwick deemed a top priority. The existing leisure centre, which contained a small 4 lane swimming pool and 55 station fitness room, was simply not big enough for the ever-growing local community. As such, SDC was appointed to construct a new centre on the playing fields adjacent to the former site. The new building, which opened in February 2016, contains an 8 lane 25m swimming pool, separate learner pool, a toddler splash area, 4 court sports hall, health and fitness suite for 120 machines, 3 fitness class studios, 2 squash courts, a crèche, indoor climbing wall, wet and dry changing facilities, reception and offices, a café area for light refreshments and a health referral room for confidential well-being advice.





Project Atlantis, Elveden Forest

One of SDC's most spectacular leisure projects encompassed the construction of Tropical Cyclone – an exclusive ride that saw award winning Behemoth Bowl and Tornado water rides combined for the first time in the world. This unique experience includes a four-seat clover-shaped raft that takes rafters through 200 metres of twists and turns at speeds of up to 30mph, experiencing a full 45 degree drop and zero gravity four times. Furthermore, Tropical Cyclone stands 18 metres tall – the equivalent of a full-grown English Oak Tree – and can accommodate up to 720 visitors an hour.

Bradwells Court, Cambridge

The scheme provided eight retail units, one catering unit and 15 luxury apartments. A sophisticated landscaping and lighting scheme was designed to match the superior quality of the building, which featured natural stone finishes and bronze detailing. This high level of design will maintain the current standards throughout the surrounding civic space. Works were undertaken adjacent to a live bus station, with a stringent logistics regime in place throughout the contract.

Aspects Leisure Park, Bristol

Located just outside of Bristol's city centre, Aspects Leisure Park is the region's premier leisure destination. The 12,000 sq.m. commercial development houses a drive through restaurant, family pub, bowling alley, a 2,000 sq.m. multiplex cinema, and a health and fitness gymnasium. Extensive external works included surface and undercroft parking, circulation roads, landscaping, a cycleway and surrounding highway improvements.

Interchange Park, Bedford

Interchange Retail Park is a development of approximately 16,200 sq.m. non-food retail floor space in sixteen different sized units. The design intention of the scheme was to provide a clean lined simple envelope to the units articulated along the main public elevations with a distinctive architectural feature that would not only present visual interest and the effects of light and shade on the main façades but would also help to link the units in one architectural identity whilst providing canopies to the entrances and locations for the main tenant signage.

Turner Rise, Colchester

Turner Rise Retail Park is a cluster of retail units and restaurants spread over 12,000 sq.m. to the north of Colchester town centre. Extensive works were carried out to highways to create a new approach road as part of the scheme, along with segregated access for delivery vehicles and an improved cycle network.

Grove Theatre, Dunstable

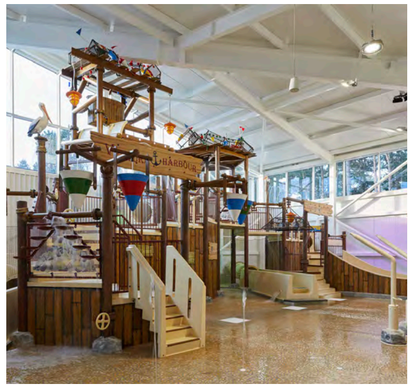
Client: CDP **Value:** £15,800,000 **Duration:** 20 Months

This negotiated project provided a major regeneration boost to the heart of Dunstable. The 750 seat BREEAM 'Very Good' Grove Theatre is the centrepiece of a new development in the Grove House area of Dunstable that includes six restaurants and residential accommodation wrapped around an existing leisure centre. The design brief was to create an inclusive performance venue that would be recognised for its creativity and sense of adventure. Since its opening it has already established itself as one of Bedfordshire's premier entertainment venues.

Project Atlantis, Sherwood Forest

Client: Center Parcs **Value:** £15,000,000 **Duration:** 16 Months

Project Atlantis comprised the construction of the third Tropical Cyclone water ride for Center Parcs, this time at Sherwood Forest. The new ride has 125m of twists and turns whilst the rider experiences gravity-defying drops throughout. The ride culminates in the large cyclone which gives the ride its iconic shape. There is a choice of 4 different themes which offers riders a brand-new audio visual experience. SDC also revamped the Subtropical Swimming Paradise to incorporate a family water play area (Venture Harbour) and a toddler splash zone (Venture Bay) with a toddler pool.



Research

NIAB Park Farm Barn 1, Cambridge

Client: NIAB **Value:** £15,000,000 **Duration:** 12 Months

Construction of Barn 01 at the Cambridge National Institute Agricultural Botany Park Farm location commenced with the demolition of an existing storage shed of steel frame construction. The new barn comprised of piled foundations and a mixture of ground bearing and suspended concrete slab, metal composite cladding and roof sheeting. Barn 01 will be the new home for the research staff that complete seed analysis and growth. The building is a 2-storey steel frame construction provided a metal/concrete deck first floor for a mixture of office space, laboratories and controlled growth room environments. External works involved a mixture of hard and soft landscaping in the form of car park and break out area, along with growth areas.

Bio-Development, Babraham

Following the success of the Immunology and Signalling building, SDC was appointed to construct a Bio-Development facility with two wings of laboratories, write-up and administration areas. The wings are separated by a shared entrance atrium and support core, while external risers allow for services to be modified with minimum disruption to the tenants. Services included LPHW heating, chilled water cooling, supply and extract ventilation, fume cupboard extract, hot and cold water services.

Moneta Building, Babraham (B280)

Building B280 provides flexible office and laboratory space for small biotech enterprises, with a key component of the design being to alter internal layouts through the use of demountable partitions. Another interesting feature of this three-storey building is extensive curtain walling to encourage the penetration of natural light, thereby reducing energy consumption through intelligent passive design.

B730 Extension, Babraham

B730 contains offices, validated laboratories, write up rooms and staffroom accommodation. The plant room and services installations were located in the roof space. Externally, work involved ground excavation to extend the flood compensation area and relocation of existing surface water attenuation, add a new surface water drainage system, modify existing foul drainage pipework and divert the existing HV cable.

Building B270,Babraham

This multi-tenanted facility for Babraham Bioscience Technologies, completed in two phases, incorporates bio-science laboratories, chemistry laboratories, incubator space, central fume cupboard facilities, a CAT 2 containment room, wash-up facilities, meeting rooms and office space. B270 was constructed adjacent to a number of occupied facilities within the Babraham research and development campus, meaning minimising noise and disruption was of paramount importance. The building achieved a BREEAM ‘Excellent’ rating.

The Cambridge Building, Babraham

The Cambridge Building is a state-of-the-art venue that includes a 200 seat lecture theatre, standalone meeting rooms, breakout space, along with a 270 cover restaurant, café and bar. The building is designed as a focal point for both social and conference activities for the Babraham Research campus, and the wider life science community. The Cambridge Building is located on the site of the former conference centre and refectory, adjacent to the Grade II listed Babraham Hall. Given the location, the design was required to both contrast and compliment the neighbouring Jacobean-styled hall. As such, the predominantly concrete-framed structure was clad using a material palette that comprised curtain walling, terracotta rainscreen panels, and colour-matching renders.

The Bennett Building, Babraham

B930 is a landmark building at the entrance to the Babraham Research Campus, providing cutting-edge facilities for lease to expanding commercial organisations working in the field of biomedical research and related disciplines. A key component of the project brief was for the interior arrangements of the building to be as flexible as possible to allow spatial adjustments to the laboratory and office spaces without major disruption and expense. B930 also included a café and meeting/drop-in facilities for use by tenants of this building, as well as those in adjacent buildings. Externally, the roof was considered particularly important due to the fact that the site slopes, leaving more elements of the roof visible than normal because of the higher ground. The end product resulted in B930 being awarded the title of Best Kalzip Project Under 1500 sq.m. at the Kalzip Roofing Awards in April 2015.

Project Gemma, Cambridge

Client: University of Cambridge **Value:** £15,000,000 **Duration:** 16 Months

Project Gemma is a five-storey extension to the Addenbrooke's Clinical Research Centre, complete with basement and rooftop plantrooms. The building is constructed from an in-situ concrete frame, clad in a combination of pre-cast stone and curtain walling and is topped with a single ply flat roof. The building links into the neighbouring buildings at levels 1, 3 and 5. Internally, Project Gemma is subdivided into five zones, namely: support and ancillary areas; the interventional investigation unit; an early-phase trials unit; a clinical research facility (CRF) and a metabolic CRF and eating behaviour unit. The highly serviced clinical rooms are located within a central 'core' zone, while the administration, recovery and social functions are set around the perimeter to maximise the use of natural light and ventilation.

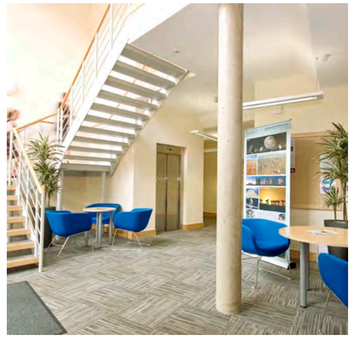
Maxwell Research Centre, Cambridge

Client: University of Cambridge **Value:** £16,500,000 **Duration:** 15 Months

This state-of-the-art venue houses the Department of Physics and contains post-graduate research laboratory facilities, open plan researcher write-up space, academic and administrative offices, a collaborative social hub, business lounge, and a tea room. The new build area is approximately 4,930 sq.m., combined with 530 sq.m. of refurbished space, to deliver a total Gross Internal Area of 5,460 sq.m. The building accommodates 92 PhD students, 109 post Doctorate researchers and 67 staff. Named after the prominent physicist James Clerk Maxwell, the Centre will also be used to generate additional revenue through summer schools, conferences and Masters courses in Scientific Computing.

EEBDA CAPE, Cambridge

A two-stage project for the University of Cambridge to provide a three-storey extension to the Centre for Advanced Photonics and Electronics. The extension delivered 1,340 sq.m of laboratory and write-up spaces, along with 5,405 sq.m. of shell space for the future fit-out of laboratories and clean rooms. Although linked to the original building through a shared reception, welfare areas and cross walk ways at first and second floor levels, the extension is separated from the existing by an open courtyard and has its own identity. It was constructed using a raft foundation and concrete frame, with cladding provided in the form of brickwork and curtain walling – the latter featuring deep recesses for solar control. Externally, the existing roadway between CAPE and Roger Needham Building was removed and the area around the extension re-landscaped with modifications to the existing car parks to allow access to the whole area.



Astrophysics Centre, Cambridge

Procured on a two-stage design and build basis, this project delivered a modern office building containing modular spaces in a range of single and shared offices, workshops and maintenance areas. The building envelope is predominantly cavity brickwork to the main elevations with aluminium-clad timber windows. The facility also incorporates a ground source heat pump and a supplementary gas-fired condensing boiler to serve an under floor heating/cooling system. The project achieved a BREEAM ‘Excellent’ rating.

CEEED, Hatfield

The Royal Veterinary College's Centre for Emerging, Endemic and Exotic Diseases (CEEED) is a state-of-the-art facility for infection and immunity research. Including open-plan offices and high biosecurity laboratories, CEEED is designed to act as a research hub for a team of multidisciplinary researchers, so that quantitative scientists, clinicians and laboratory scientists can jointly tackle infectious diseases on a national and global scale.

OU Building 10, Milton Keynes

A major turnkey project comprising two linked laboratory buildings in a three-storey reinforced concrete construction, complimented with curtain walling and rendered façades to create a contemporary design. The facility incorporates state-of-the-art facilities for both chemistry research and The Planetary Sciences and Space Research Institute. The highly serviced research laboratories have the full provision of medical gases, fume cupboards, clean rooms, specialist areas and cold rooms.

B580, Babraham

B580 houses a biological life sciences research laboratories, tissue culture rooms, fume cupboards, a -80°C freezer room, write-up spaces and an IT suite with a central data centre. The facilities make provision for the user of precision instrumentation, while demountable partitions provide flexibility between laboratories. The building was constructed from a re-enforced concrete frame with steelwork at second floor level to enclose the plant room and give support roof.

Building B570, Babraham

SDC was appointed to construct an extension to Building B540 to create Building B570 – a new research laboratory building. The interface between B540 and B570 contains an entrance, reception area, lift and a goods-in area serving both buildings. B570 houses a mixture of wet laboratory space, specialist rooms, offices and write-up areas arranged over two floors, with a plant room in the roof space. The laboratory areas, which include peninsular benching and reagent shelving, are arranged around a 6.4m grid positioned against the external walls.

Special Projects

Girls School Merger, Bedford

SDC's Special Projects division completed an intensive programme to successfully merge two Harpur Trust schools in Bedford and form The Bedford Girls' School. The extensive construction works on the former Dame Alice Harpur School site in Cardington Road, Bedford were completed during the seven week summer holiday break. In addition to creating a new car park, a refectory server and two additional science laboratories were created, interior spaces were rationalised to create three ICT rooms and the remaining school was re-decorated and re-furbished. A music school with specialist tutorial rooms was created in a Grade II listed building and a new language school formed in the former music school.

The Orangery, Kimbolton

Kimbolton School is an HMC co-educational day and boarding school of some 950 pupils aged 4 to 18. The Senior School is based in the grounds of Kimbolton Castle, and its Preparatory School is based at the other end of the village, but is connected to the senior school via 'The Duchess Walk', a tree-lined pathway. SDC were appointed to develop the design and deliver the refurbishment of the Orangery Classroom Block, set within the Preparatory School which included full window replacement, internal strip-out of fixtures and fittings, full rewire, mechanical upgrade, new fire alarm system, new ceilings, flooring and redecoration. A careful plan was put in place to ensure minimum disruption to pupils and staff throughout the project. The finished block offered a modernised and improved teaching environment.

Engine Test Cells, Daventry

SDC was contracted to provide a two-storey extension to an occupied building at a manufacturing facility. The new extension is constructed of a reinforced concrete base, steel frame, acoustic cladding and a concrete roof to house three engine test cells. A mezzanine floor was also constructed, with three large pits and the inertia blocks for the engines, new service corridors and extensive M&E installations. Externally a new gas main, with a 120m pipe bridge, was constructed.

Cyberknife, Northwood

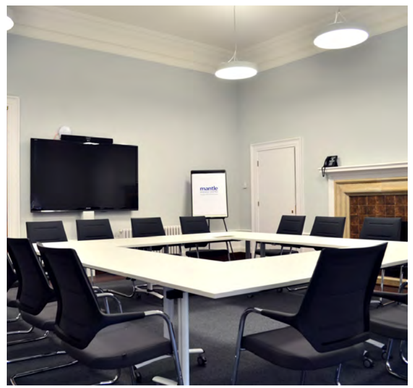
The project consisted of major structural modifications to the existing linear accelerator reinforced concrete bunker to create space for the new Cyberknife Facility. Site access was extremely restricted, requiring significant project planning and site co-ordination. Works were undertaken within an existing Cancer Care Unit, which is situated at the centre of a fully operational hospital. Daily liaison took place between the Site Manager, Client representatives and other hospital users to keep them informed of planned operations.

Fire Station, Yaxley

SDC was appointed to partially replace the existing Yaxley Fire Station, including the building appliance bay and drill tower, while retaining the existing 1878 building. Fire-fighters can also maintain their skills on-site in a modern, purpose built training facility to harness their techniques. The station has a lecture room, office, welfare facilities and bay with space for one fire engine, along with a new smoke house training facility that replaced the old drill tower at the back of the site.

MRI Scanner, Bedford

The two-storey Victorian ward, located in the South Wing of the Hospital, required major structural alterations, with temporary structural propping for demolition to take place. Subsequently, a new structural steel frame was erected within the existing building. SDC chaired meetings with the Trust and the MRI supply company to ensure that all work elements were progressing in line with the contract programme, and that the building services would meet the MRI supplier's requirements ready for the Faraday Cage installation.



Officers Mess, Duxford

Client: Mantle Business Centre **Value:** £1,970,000 **Duration:** 7 months

Once home to fighter pilots during the Second World War, the Officers' Mess building has been transformed into a fully serviced business centre. SDC Special Projects was appointed to renovate the historic building in a style that retains its character and preserves the antique features in each room. The project comprises offices, meeting rooms and a café forming the central hub of the structure. In April 2017, the project was awarded with a British Council for Offices (BCO) for 'Best Refurbished Workplace' in the Midlands / Central England region.

Courtyard Infill, Wycombe

Client: Wycombe Abbey School **Value:** £1,100,000 **Duration:** 9 months

SDC was appointed to undertake various refurbishment works at Wycombe Abbey School during term time. The project involves the refurbishment of existing locker rooms, the Heads of Year office and the school shop with the most striking feature of the project being the courtyard infill. This comprises a large roof light which floods the area with natural light but still keeps the traditional feel and the original brickwork. The project had its own unique challenges as the construction is in the middle of an active school with the Modern Language classrooms in close proximity. Therefore all noisy work has to be limited to when the children are on break so as not to disrupt their learning.

Department of Genetics, Cambridge

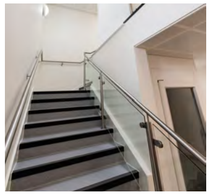
Located in the heart of Cambridge City Centre, the Department of Genetics Building has recently been reconfigured to house a new 'Computational Biology' Department. The project area situated on the first and second floors of the West Wing involved the removal of internal walls and existing staircase to create a modern open-plan office, along with associated meeting rooms, study space and library. The new opening facilitates closer interactions between different research groups whilst providing privacy for the Principal Investigators in the way of glazed single occupancy offices. In addition, SDC upgraded the existing mechanical, electrical and data cabling.

Entrance & Enclosures, Whipsnade Zoo

This project for Whipsnade Zoo involved the demolition of an existing entrance building to make way for a new, fresh and inviting entry point for visitors. The timber span canopy with fully glazed façade maximises natural daylight and provides panoramic views of the zoo. In addition, the centre includes pop-up retail units and seating areas. Set within ZSL Whipsnade Zoo's 600 acre park land lies a brand new butterfly house and crocodile tank. Featuring over 30 different species of colourful butterfly, the newly completed enclosure boasts one of the largest biomes of any UK Zoo. The curved timber aesthetic consists of nine 16m long glulaminated arches, designed to echo the shape of a butterflies' wing. The exhibit is also home to several dwarf crocodiles allowing visitors to get up close to the West African species.

South Wing MRC, Cambridge

Special Projects recently completed a two-storey extension at the Medical Research Council's Cognition and Brain Sciences Unit (CBSU) in Cambridge. A significant part of the research at this site makes use of brain imaging, with facilities for magnetic resonance imaging (MRI) magnetoencephalography (MEG) and electroencephalography (EEG). Due to the Unit's success over recent years, SDC was appointed to construct an extension to the South Wing Office building to provide additional accommodation for staff and visiting fellows.



Nursey Building, Cambridge

Constructed using a structural insulated timber panel system, the single-storey nursery provides space for 78 children across four classrooms, as well as a conference room, kitchen, staffroom, office and toilet areas. The building benefits from an Air Source Heat Pump, natural ventilation provided by openable rooflights and trickle ventilation, LED lighting, and underfloor heating, giving the building an overall EPC rating of A. Consequently, each classroom was fitted out with equipment that promotes self-directed activities, hands-on learning and collaborative play.

Lincroft Science Block, Bedford

This project saw refurbishment works creating new state-of-the-art laboratories. The project involved the strip out and renovation of flooring, ceilings and M&E. Phase 2 comprises the refurbish to two existing labs, the existing art room and technology room to provide four labs. The project involved alterations to external walls to include new infills, timber framed render panel and windows, new rooflights and mechanical penetrations through existing felt roof system, cooling, ventilation, power, lighting and data.

Creative Exchange, St Neots

The Creative Exchange was constructed to provide workspace for around twenty fledgling firms specialising in technology, media and the arts, thus allowing them the opportunity to exchange ideas with each other, as well as students of the adjacent Longsands Academy. The architecture of the four storey centre aims to reflect its use, whilst the exposed building fabric and services lend a contemporary and functional feel. The building won a RIBA Design Award in 2010.

Pilot Hall, Cranfield

Client: Cranfield University **Value:** £900,000 **Duration:** 5 months

This project for Cranfield University involved the single storey extension to the sewage treatment works facility. SDC constructed a hall space to be fitted with research equipment. Other facilities added include meeting room, kitchen and lounge area, and a wash room and changing room with locker space. The facility is used to test waste for research purposes.

Photography

Credits

Special Vehicles Operation - **Jaguar Land Rover**

Classic Cars - **Jaguar Land Rover**

Units 26-27 - **Hundven-Clements Photography**

Units 22 and 25 **- Hundven-Clements Photography**

Judge Business School - **Hufton+Crow**

Kettle's Yard - **Hufton+Crow**

Project Gemma - **Nick Guttridge**

The Welding Institute - **The TWI Photography Team**

Churchill New Court - **David Stewart**

Newnham College **- Dennis Gilbert**

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