

Engaging with Schools

Building an educational space of the future is a complex and constantly transforming challenge. It is about creating comfortable, relaxing and inspiring learning environments where learners of all ages can prosper, develop and succeed.

NG Bailey has the experience and expertise to deliver new age educational environments that support educational changes. We are constantly mindful of the true aspect of sustainable education that permits adaptable, flexible and pertinent spaces that support pedagogical change. The investment being made in the education sector must support long-term benefit, and thus a more holistic approach must be taken.

We understand that over its lifetime, a buildings' operating costs must be kept to a minimum, that energy efficiency targets must be met, in line with

Government legislation, and that the systems and services within educational buildings should be adaptable to move with the times.

Education is at the heart of NG Bailey - we supply educational environments but also we live and breathe education through an engagement programme with schools, and training and educating our own staff through our exemplary leadership and apprenticeship academies.



An educational environment must deliver an opportunity for each and every learner within it to realise continuous improvements in their performance, for the benefit of their long-term future.



NG Bailey was a partner on the York college project, a new £60m further education college, serving 13,000 students in the Yorkshire and Humber region.

About NG Bailey

NG Bailey has been a significant part of the construction industry since 1921. Over this time, it has established itself as the UK's leading building services provider, which benefits from the stability and flexibility of being privately-owned. Boasting a £600m annual turnover and almost 4,000 skilled employees based all over the country, NG Bailey aims to bring the shell of the buildings it works on to life through the design, installation and integration of systems and services to deliver commercial benefit to the occupiers of those buildings.

The company has developed, over time, to provide a comprehensive suite of services that support a holistic approach to delivering and managing the environments surrounding the occupants, ones that inspire and encourage creativity, improve efficiency and have a whole life aspect. We do not just design and deliver these buildings we manage them and help develop them over time as the needs for the building change, or as legislation imposes new demands on the owners.

Delivering our commitment

Education has always been at the core of our business both within our own philosophy towards our staff and in the development of our relationship with the community. Our approach is delivered through educational specialists who focus on developing our solutions to meet the demands of an ever changing educational market place. This brings together experts in design, operations and facilities management with buildings services, sustainability and energy management and ICT professionals.

Our current education clients are looking for a lot more than our ability to supply base level building services solutions. They want to create inspirational learning environments and are looking to us, in a consultative role, to offer innovative solutions that will meet their brief. They want sustainable solutions to reduce the carbon footprint and a focus on environmental factors that have a positive contribution to educational performance such as the blend of air quality, light, thermal comfort, acoustics and ICT, which has the ability to improve educational performance by as much as 20 per cent. NG Bailey has the experience and skills to offer them what they want.

We are active in the Building Schools for the Future and Academies Framework schemes and also deliver major projects within the Higher Education and Further Education sectors. We know what makes an educational space work and that a students' working environment can affect their learning ability for better or worse.

We know that these spaces need to be well ventilated, using fresh air where possible; that the use of natural light is better than artificial light; and that the correct integration of ICT systems can make for a more productive working environment. These are just some of the factors that we, as engineers, take into consideration when planning our work in the education sector.

Education within NG Bailey

NG Bailey firmly believes that its investment in apprenticeship training and the learning and development of its own people are the key to its long established success. The company's apprenticeship academy opened in 1969 and is preparing for its 40th Anniversary later this year. The 'Bailey Engineering Academy', as it is now known, has since trained more than 4,000 students and recruits in the region of 60 new apprentices each year. It is recognised as one of the industry's leading craft training schools offering development opportunities covering Mechanical and Electrical Engineering and Quantity Surveying.

In addition to training new recruits, NG Bailey also focuses on the development of its employees through its 'Bailey Leadership Academy'. Based at Denton Hall, the company's head office, the academy offers employees opportunities in a variety of subjects, from Performance Management and Corporate Social Responsibility through to nationally recognised leadership and management qualifications. In recent years, over 800 NG Bailey employees have improved their leadership skills through the academy.

In addition, we also run a structured graduate programme, where we take on a number of University graduates each year.

We practice what we preach

NG Bailey is committed to its educational work with schools, and as such has developed a corporate education strategy to focus and direct this to the benefit of the community. The strategy allows us to maximise the opportunity to raise awareness of careers in engineering amongst young people, with the aim of securing skills for the future of the company and the industry. What's more, the work NG Bailey undertakes with schools adds to our understanding of the education sector and customers' requirements in a business sense.

There are two strands to this approach; the first as a direct result of any project we are engaged in. In this instance, our on-site team's role includes engaging learners, not just building inspiring spaces.

Our central educational team works with independent specialists to create a set of resources that reflect the curriculum and bring our skills into the classroom. We've developed a choice of standard vocational courses for learners that have been fully tested with teachers and the learners themselves. We also create bespoke programmes that will suit specific requirements. We will develop dedicated programmes for each educational project and work with the local team to provide on-site support. For this, we provide the materials to deliver each project and make our staff available for advice and guidance.

This support does not stop when the building work is done, it is an ongoing process to help develop learners long after our work on site has finished. We also work independently with schools as part of our Corporate Social Responsibility programme. For example, we have forged a strong link with the Engineering Development Trust (EDT), an independent registered charity whose mission is to inspire and motivate young people nationwide to fulfil their potential through careers in science, engineering and technology.

The company has recently worked with the EDT to deliver the charity's Engineering Education Scheme (EES), across the Yorkshire region. This project, involving many local schools, has helped to raise the awareness and understanding of engineering amongst students, parents and teachers – a much-needed activity if engineering is to continue to attract bright people. To its credit, this joint scheme has just been awarded a £10,000 prize by Regional Development Agency, Yorkshire Forward, which is testament to the impact a scheme like this can have on young people.



Working with Horbury School

NG Bailey worked as part of a team to build a new school alongside the existing Horbury School, which remained open. The head teacher at the school was keen for the main contractor and NG Bailey to create learning opportunities for students during the build so engagement was a central aspect of the tender proposal. NG Bailey's project and site teams agreed to undertake a series of activities and played a key role in organising and managing the process with the school. They focussed on helping students understand the build process and NG Bailey's role within it by showcasing the variety of roles and skills used by the company. This helped raise awareness among the students of alternative vocations and specialisms in addition to the traditional and more familiar craft trades. Work has finished on site, but NG Bailey remains in contact with the school. The contract manager continues to liaise with the head teacher and we have developed a new activity called 'Creating a Sustainable Enterprise' with the school.

"Overall, our positive and productive relationship with NG Bailey has allowed a number of different students to work on projects in a real life environment. They have gained real understanding of the world of work and also key skills that they can apply to their everyday learning. Sustainability and project management skills have been delivered across each project and have given each student who has taken part vital skills to prepare them for their future careers. We look forward to continuing our partnership with such a supportive company that values the benefits of links with the education sector and realise the difference they can make to children's lives."

D Duncan , head teacher of Horbury School

Educational courses run by NG Bailey

Title	Participants	Scope	Duration	Numbers
Demolition	14-20 yr old, apprentices	Project management, engineering, construction, maths, communication, teamwork	1 day	Up to 30
Earthquake	14-18 yr old, apprentices	Project management, engineering, geography, construction, nutrition, logistics, maths, drama, teamwork	1 day	Up to 110
Carbon footprint CPD for teachers	Teachers	Science, teamwork, problem solving, geography	1 day	Up to 12
Golden Opportunity	14-18 yr olds, apprentices	Project management, design, CDT, business studies, maths, teamwork, communication	1 day	Up to 180
The Just in Time Challenge	14-20 yr olds, apprentices	Project management, manufacturing, business studies, maths, teamwork, communication, problem solving	1 day	Up to 150
K'Nex challenge	8-12 yr olds	Engineering, construction, maths, science, teamwork, communication, problem solving	½ day	Up to 33
Consim	14-20 yr olds, apprentices	Project management, construction, problem solving, maths, teamwork, communication	1 day	14
Theodolite	14-18 yr olds	Design, technology, maths, geography, teamwork, problem solving, engineering	Open ended	15
Project Profitability	14-20 yr old, apprentices	Business studies, maths, teamwork, communication, problem solving, time management	½ day	Up to 33
City bus challenge	Post 16, apprentices	Project management, business studies, maths, teamwork, communication, problem solving	1 day	Up to 33
WOW Maths				
Rocket Racket	8-12 years	Engineering, maths, science, history	½ day	Up to 33
Robot	14-18 yr olds, apprentices	ICT, maths, teamwork, communication, problem solving	½ day	Up to 33
Booklets	16-20 yr olds, apprentices	Project management, manufacturing, business studies, maths, teamwork, communication, problem solving	½ day	Up to 33

For full details on our courses call NG Bailey on 0161 872 0171.