



# CONSTRUCTION

# CAREERS



# WEEK 2017

Construction Careers Week, managed and delivered by Built Environment Skills in Schools, took place across the Greater Birmingham and Solihull Local Enterprise Partnership region from 9th to the 13th October 2017. Activities and events were open to all schools and colleges in the area, and we partnered with UK Construction Week at the Birmingham NEC for a day of seminars and meetings with exhibitors across the nine different specialist shows on Wednesday 11th October

Construction Careers Week was designed and choreographed as a direct response to the challenges faced by construction employers in the region. The week of activities across Birmingham and Solihull secondary schools and colleges aimed to raise awareness of and enthusiasm for careers in the built environment sector.

During the week, just over 400 students from 21 schools took part in site visits, careers fairs, assembly talks, employer visits, classroom challenges and UK Construction Week activities at the NEC. Conscious of school timetables and budgets, a whole week of live and pre-recorded digital content was also broadcast directly into schools through the BESS YouTube channel

Schools were very receptive to the idea of Construction Careers Week as it helped them towards the delivery of their careers guidance targets, particularly the Gatsby benchmarks that highlight the need for students to experience workplaces, and have encounters with employers and employees.

The skills shortage in construction is a well-established phenomena, but other sectors are now facing shortages of their own, and we must all compete for skilled and motivated talent. Only 40% of children in school today will join the workforce to a job that currently exists, so we must paint a picture for them of a world we can't always accurately predict.

The ambition remains to create Construction Careers Week as an annual week of activity, opportunity and localised experiences for young people to see the projects that will shape their future in the city, and meet the employers offering careers opportunities

An event of this magnitude doesn't happen without support, and our lead partners Rider Levett Bucknall, Clancy Consulting, Willmott Dixon and the CITB made it possible. In addition, we are delighted to thank all those individuals and organisations involved at the back of this book

# EDUCATION HUB

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UK CONSTRUCTION WEEK



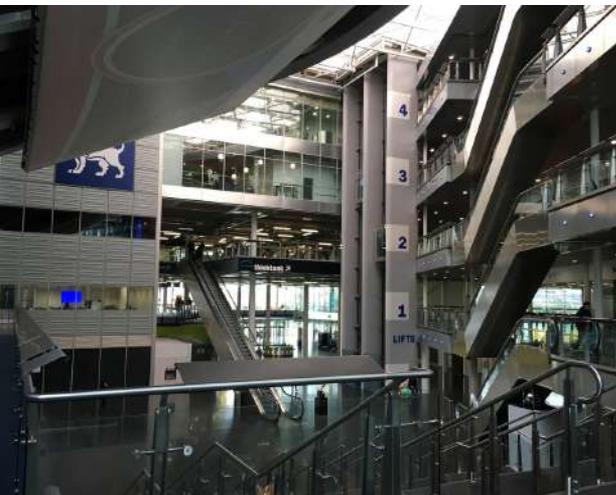
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All information correct at the time of Construction Careers Week 2017





# ACTIVITIES IN SCHOOLS

## CAREERS FAIRS AND CLASSROOM CHALLENGES



During Construction Careers Week, employers were invited to participate in events within schools including assembly talks, careers fairs and classroom activities. Many schools had already committed time in their calendar to activities taking place within the school, and they were excited to gain support from new organisations and individuals. Construction Careers Week was aimed at students from 11-18 attending schools and colleges within the GBSLEP region, focused where possible on schools serving harder to reach communities in key priority wards or those with preconceptions of careers in construction

Ben Burton, Business Development Manager from ISG Plc, attended a careers fair at Great Barr Academy to promote careers in a global construction services company, and to challenge a few misperceptions.

Alan Bain, Business Director from Systra Ltd, went to Holte School to present to a group of twenty Year 11 pupils old, and answer questions about transport planning and consultancy.

Kathryn Lennon Johnson from BESS attended a careers fair at Kings Norton Boys School, the first time that the school had hosted such an event, and particularly timely to pupils as the school's Sixth Form was closed in 2017.

Michelle Doyle, Community Engagement Coordinator from Building Birmingham Scholarship, attended a careers fair at Cockshut Hill School.

Darron Hall, Regional Sustainability and Quality Manager from Sir Robert McAlpine, hosted a classroom activity with Kathryn Lennon Johnson at Hall Green School. Darron inspired the students to consider the requirements of tall buildings, and then challenged them as small groups to build the tallest structure they could manage from marshmallows and dry spaghetti

Many teachers and careers leads spoke of the need to understand more about careers in construction through these routes.

On average, only 2% of students in classroom groups had a stated interest in a role in construction, and less than 10% could name job roles other than architect or bricklayer. After meeting with employers, around 60% of students stated surprise at the breadth of opportunities

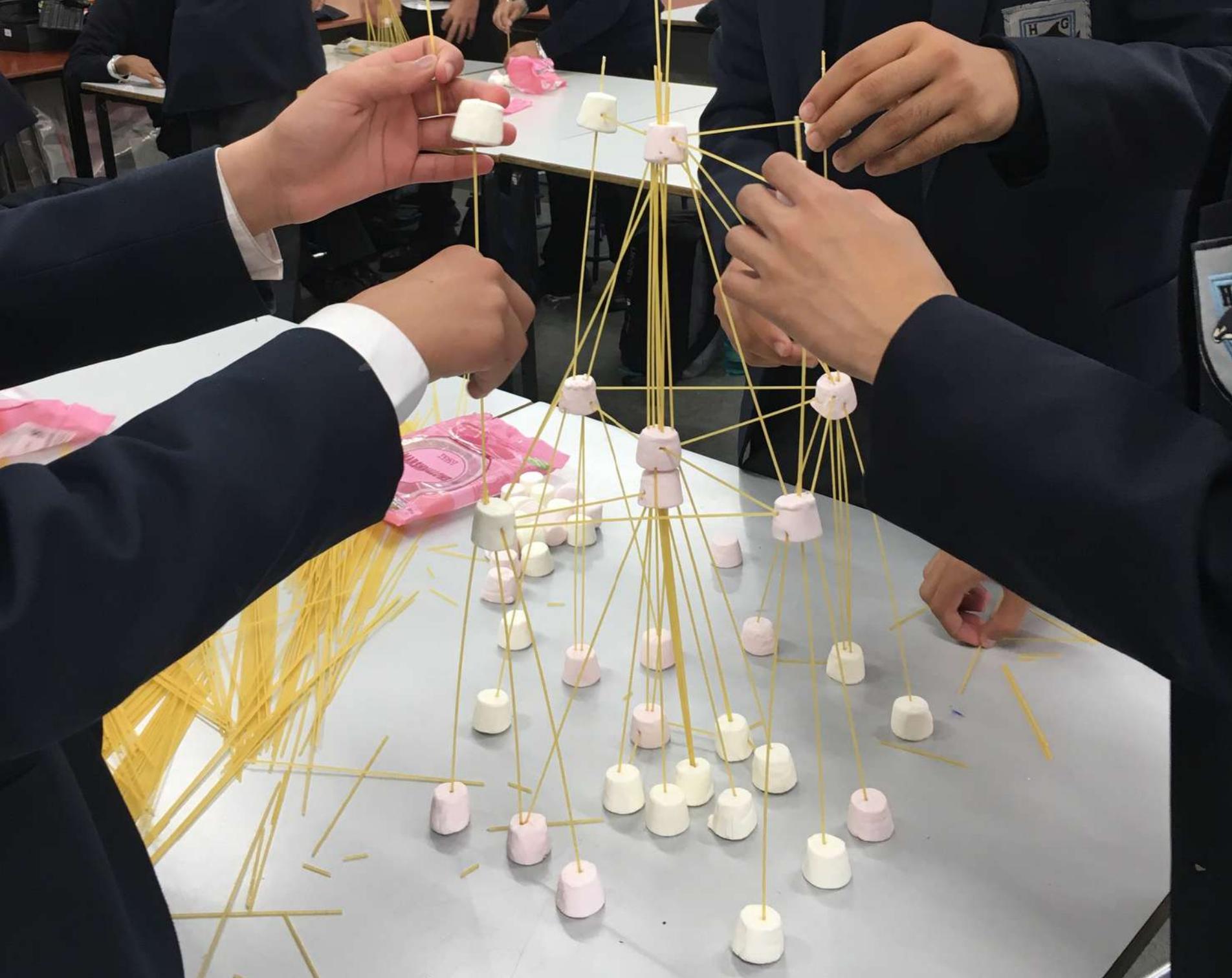


This page (clockwise, from top left):

Darron Hall from Sir Robert McAlpine with two Hall Green School students; Ben Burton from ISG plc with Great Barr Academy students at school careers fair; Kathryn Lennon Johnson at Sandwell Central Sixth College (earlier event); Darron Hall addressing the class at Hall Green School; the careers fair event at Great Barr Academy

Next page: a group of Hall Green School students building their spaghetti and marshmallow structure





# ACTIVITIES AT THE NEC

IN PARTNERSHIP WITH  
UK CONSTRUCTION  
WEEK



We were delighted to partner with UK Construction Week at the NEC, and in part the dates for Construction Careers Week were chosen to coordinate with this event. In addition to panels and exhibitors, students were also able to attend the Education Hub in the main hall on Wednesday 11th October, with subsidised transport generously provided by National Express

The first event of the day on the Education Hub was a talk from Phil Warwick, CITB Advisor about 'A Career Like No Other'. He showcased the CITB's fantastic video and answered questions from students.

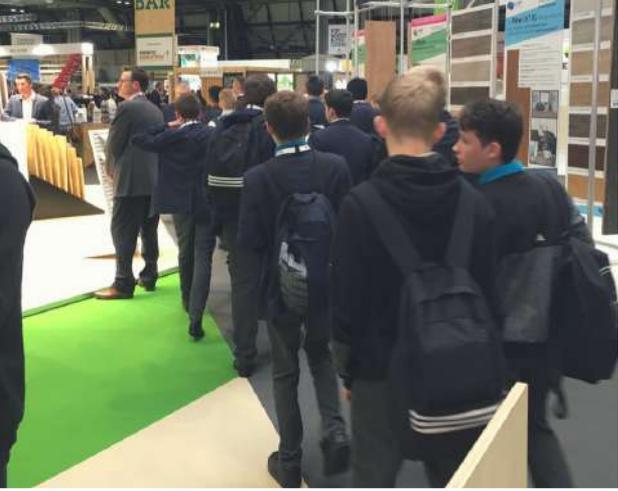
After her panel discussion on the main stage, we were joined by Anne Timpany from OnTap Plumbers, who spoke to the Education Hub and also broadcast live to schools who were unable to attend the NEC. She talked about the modern methods of plumbing, and the importance of skilled commercial plumbers. After her presentation, she answered questions from students who wanted to know more about opportunities, qualifications and careers

And rounding off his busy day of talks and panels at UK Construction Week, we heard from Mark Farmer of Cast Consultancy who spoke about the challenges raised in his 2016 report, 'Modernise or Die'. He reiterated his statement on the need to move to higher levels of premanufactured content, and highlighted the attention now directed from concerned stakeholders and unhappy customers at construction companies

As well as participating in activities on the Education Hub, students also had the opportunity to explore the nine halls of specialist exhibitors including the stands of exhibitors like Caterpillar, HS2, E.on and several universities. In order to fully understand the role of the built environment, it is vital for pupils to see the products, innovations and machinery of construction, as well as the physical and mental labour of contractors and consultants

Teachers and students all expressed surprise at the breadth of careers available, and teachers were keen to learn more about opportunities that challenged children's preconceptions

Due to the need for teacher supervision, many of the groups of students already had an interest and understanding of careers in construction, so the change in perceptions for those attending was less apparent. However, with specialist exhibition halls featuring Timber Expo, Civils Expo and Grand Designs Live, to name a few, pupils could learn more about the number of roles required to support the sector.



This page (clockwise from top left):

Students arriving at the Education Hub in the main NEC hall; presentation from Phil Warwick from CITB describing 'A Career Like No Other'; Anne Timpany from OnTap Plumbers screen capture from live broadcast to schools; Mark Farmer from Cast Consultancy presenting to the Education Hub; students planning their route around the UK Construction Week exhibition

Next page: the Education Hub banner at UK Construction Week



# EDUCATION HUB

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**UK** CONSTRUCTION  
WEEK





# LIVE BROADCASTS

## PERISCOPE AND YOUTUBE LIVE



For many schools, taking students out of class can pose a real challenge, especially this early in the school year, and we were determined to offer the same opportunity to learn about construction careers for all students. So we broadcast a whole week of live and pre-recorded content to schools through the BESS TV YouTube channel and the Periscope app.

An itinerary was issued to all teachers every morning, with content broadcast on the hour and half-hour. By using YouTube Live, pupils were able to add comments and questions that could be addressed by presenters, keeping the interactivity and allowing schools to become involved in the broadcast. All the videos also remained on the YouTube channel, so students who missed the broadcast could watch again later

We visited Willmott Dixon's project at the National College for High Speed Rail during the final stages of the build. The entire visit was broadcast through Periscope, and shown again to schools during Construction Career Week, delivered by Site Manager Mark Brien.

Debbie Ward from Clugston Consulting hosted a live webinar for schools and colleges, explaining the Circular Economy and inspiring young minds to join a sector that is gradually embracing serious environmental responsibility. Debbie discussed the changing opportunities for careers in construction in light of greater environmental awareness, including a potential focus on roles in the deconstruction process

Professor Tristram Hooley from the Careers and Enterprise Company hosted a live 'Decision Time' seminar and simultaneous broadcast from the boardroom of Rider Levett Bucknall's Birmingham office, presenting his thoughts on the components that need to be in place to support young people to make good career choices

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Next page (clockwise from left): Mark Brien from Willmott Dixon at National College for High Speed Rail screen capture from Periscope; screen capture from Debbie Ward's live broadcast to schools about the Circular Economy; Professor Tristram Hooley presenting to attendees and broadcasting live to schools from Rider Levett Bucknall's board room

Following page: screen capture of the Construction Careers Week video playlist on YouTube



on Careers Week 2017 - Circular Economy with Debb...  
**Circular Economy | Bigger picture**

How many countries are required to meet the demand of its citizens...



Pwc Megatrends – "The five global shifts reshaping the world we live in."



Demands of the global population by **2030**



**Climate change and resource scarcity** - As the world becomes more urbanised and the demand for energy, water will rise. The world has a finite amount of resources that can satisfy this demand.



2016

2030

Source: National Intelligence Council





# Birmingham Municipal Bank

Construction Careers Week 2

BESS Built Environment Skills in Schools



- 1 Birmingham Municipal Bank - Brum's Hidden Spaces 2:38
- 2 Birmingham City Council - Union of Brighton 21:42
- 3 Paradise Birmingham - Timelapse Video 4:50
- 4 Time capsule Birmingham HS2 - E Birmingham 4:28
- 5 Birmingham City Council - Hader Berwarf 2:12
- 6 4. Visiting the Birmingham MAT UK 6:00
- 7 Birmingham City Council - City development E Birmingham 1:12
- 8 HS2 fly-through - One route between HS2td 22:17
- 9 Urban Townscape Loop, Birmingham - Omkar Kulkarni 1:23
- 10 First look inside Row

Bank - Brum's Hidden Spaces

4 0 SHARE

SUBSCRIBE 349

The Bank was launched by the local authority in 1916 to enable ordinary people to support the war effort. It was placed on a statutory footing in 1919 and the building was opened in 1933. Designed by Thomas Cecil Howitt, the



A Man Built to Build



Birmingham City Council - City development E Birmingham



HS2 fly-through - One route between HS2td

# SITE AND OFFICE VISITS

TO PROJECTS AND EMPLOYERS



The built environment sector has a huge advantage when it comes to showcasing our products – they're everywhere! Visits to construction sites, employers offices and future developments give students an opportunity to experience exciting new environments. Although Gatsby Benchmark 6 states that “every pupil should have first-hand experiences of the workplace through work visits, work shadowing and/or work experience to help their exploration of career opportunities, and expand their networks”, construction has a definite advantage because our workplaces can be so varied and exciting!

There is much redevelopment currently underway in the city including Carillion's Paradise Birmingham demolition and redevelopment, and the enabling works along the future route for HS2 and the Midland Metro track expansion, as well as improvement works at Spaghetti Junction. Alongside these major projects, so much of the region is being developed and modernised.

Many students stated they had never visited the Millennium Point building, so we delivered a live broadcast and behind-the-scenes site visit, showcasing the plant room equipment and utilities required to power a venue, tourist attraction, university facilities, public space, and cinema. Hosted by Facilities Manager, Ash Hales and Domec representative, Shane Young we toured the corridors and access stairs of Millennium Point, expertly coordinated by Rebecca Halbert, Marketing Manager

During Professional Services Week which took place earlier in the summer of 2017, students from Rockwood Academy visited Paradise Birmingham hosted by 2017 BYPY winner and Gleeds Associate Director, Mike Parker.

Pupils from Holte School took the opportunity to visit to the Centenary Square redevelopment, hosted by Neil Chapman, Site Manager from Bouygues, who showcased the scope of works from the terrace of the Library of Birmingham. This was followed by a trip across Broad Street to Alpha Tower, the new offices of Midland Metro Alliance, who's staff and graduates talked to the students about the ambitious, ongoing expansion of the tram route through Birmingham



This page (clockwise from top left):

Paradise Birmingham redevelopment and One Chamberlain Square by Carillion; Millennium Point site visit and live broadcast to schools; cranes and development projects across the city centre, captured during walking tours; Midland Metro Alliance reception at Alpha Tower; Millennium Point screen capture from live broadcast

Next page: Bouygues' site office at Centenary Square redevelopment





BOUYGUES

BOUYGUES

BOUYGUES

BOUYGUES

BOUYGUES

**UK**  
**CONSTRUCTION**  
**WEEK | 2017**



# Thank you

Clockwise from top left:

UK Construction Week (held at the NEC); Mark Farmer, MD of Cast Consultancy and author of the Farmer Review, 'Modernise or Die'; Rider Levett Bucknall; Professor Tristram Hooley, Head of Education at the Careers & Enterprise Company; MLM Group; Willmott Dixon; Ben Burton, Business Development Manager at ISG; CITB; Neil Rudge, Community Regeneration Manager at Carillion; BPS Birmingham (and Birmingham Professional Services Week)





national express **West Midlands**



# SYSTRA



# Thank you



Clockwise from top left:



National Express West Midlands; Darron Hall, Regional Sustainability and Quality Manager at Sir Robert MacAlpine; Systra; Shanna Chang, Site Administrator at Willmott Dixon; Neil Chapman, Project Manager at Bouygues Centenary Square; the Careers & Enterprise Company; Scott Lydon, Divisional Director at Clancy Consulting; ISG Plc; Amy Morris, Business Development Manager at Rider Levett Bucknall; Alan Bain, Business Director at Systra Ltd



# ISG



THE CAREERS &  
ENTERPRISE  
COMPANY



**BIRMINGHAM**  
Education  
Partnership



# Thank you



Clockwise from top left:

Birmingham Education Partnership; Mark Brien, Site Manager at Willmott Dixon National College for High Speed Rail; Bouygues; Midland Metro Alliance; Nigel Mason, Managing Partner at Rider Levett Bucknall; Sir Robert McAlpine; Anne Timpany, Director at OnTap Plumbers; Clancy Consulting; Rebecca Halbert, Marketing Manager at Millennium Point; Julie Stirrup, Lead Enterprise Coordinator for Schools, Birmingham Enterprise Advisor Network



**Sir Robert**  
**McALPINE**



Building  
Birmingham  
Scholarship



# Thank you



Clockwise from top left:

Millennium Point; Phil Warwick, Local Manager for CITB; Building Birmingham Scholarship; Shane Young from Domec Facilities Management at Millennium Point; Debbie Ward, Business Development Manager at Clugston Consultancy; Ash Hales, Facilities Manager at Millennium Point; Moore Stephens; Noel Street, Director at 3D Reid; Hilary Smyth-Allen, Executive Director at BPS Birmingham and Lead Enterprise Coordinator for Professional Services, Birmingham Enterprise Advisor Network



**MOORE STEPHENS**



All our fabulous  
GBSLEP schools and  
colleges

# See you in 2018!



BESSprogramme



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