



UNIVERSITY OF CENTRAL LANCASHIRE

ENGINEERING INNOVATION CENTRE

SOCIAL VALUE CASE STUDY



March 2019



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GROWTH DEAL SOCIAL VALUE CASE STUDY

Project	Engineering Innovation Centre
Capex	£31.65M
Growth Deal Funding	£10.50M
Project Commencement	June 2017
Project Completion	July 2019

1. THE ENGINEERING INNOVATION CENTRE

1.1 Project Summary



The Engineering Innovation Centre (EIC) will on completion deliver state of the art engineering facilities integrating research, teaching and innovative industry engagement, equipped to the highest quality, on the Preston campus. Its aim is to exploit the location of the University at the centre of one of the most intense

engineering and manufacturing areas in the UK and establish UCLan as a leader in engineering innovation. Through its links with other centres of excellence, the EIC will support the integration of both existing and planned advanced engineering and manufacturing assets in Lancashire, strengthening and promoting smart specialisation in the sector.

The EIC will be UCLan's new state of the art purpose-built engineering facility catering for increased volumes and more innovative undergraduate, postgraduate and postdoctoral teaching and research alongside a significant programme of industry support, engagement and innovation activities. This programme will be targeted at the manufacturing and technology supply chain focusing on the introduction of advanced materials, new technologies and new products and processes linked to UK research and development.

The EIC is first of a series of investments that will be made by the University to extend its engineering activities and reach across the County and the North West and establish a leading centre for engineering excellence in Lancashire. The proposal builds on existing expertise and working relationships with industry and steps are already being taken to build expertise and capacity in both teaching and research to ensure that the facilities are in high demand from the point of completion.

1.2 Key Business Benefits of the Extension Scheme

On completion the EIC will create spaces for teaching, research and knowledge exchange and occupy approximately 6,975m² including workshop facilities, laboratories, test facilities, and technology demonstration areas. Specifically, it will comprise:

- Higher levels of teaching provision – providing teaching space for 20 additional academics across a variety of engineering disciplines, to cater for almost 1,500 undergraduates.
- Specialist engineering equipment spaces
- A forum, or hub space to encourage interdisciplinary working and public engagement
- Industry engagement spaces for work with commercial partners
- A corporate suite including the boardroom
- Administrative and hot desking and touch down spaces for visiting researchers and companies
- Social and breakout spaces to encourage chance meetings

1.3 Construction Phase Social Value

In addition to providing state of the art facilities, the EIC will create jobs through the expansion of the faculty and delivery of revenue programmes, additional student expenditure in the local economy and the business support delivered plus a GVA uplift associated with additional highly skilled graduates entering the Lancashire workforce.

The project has already successfully delivered substantial socio-economic and community benefits throughout the construction phase.



BAM, who were appointed the main contractor on the project, have a long track record of successfully delivering education projects. Through their 'Enhancing Lives' programme BAM have demonstrated a firm commitment to embedding social value within its day to day operations and across its projects.

1.4 Key Achievements

The project has successfully secured a strong, reliable and measurable commitment to Social Value that covers a range of thematic areas including an 'Inclusive Workforce', 'Future Workforce', a 'Skilled and Productive Workforce' and 'Community Benefits'.

The key outcomes of the project have been analysed using the National Social Value framework Themes Outcomes and Measures (TOM's) to measure the social value delivered and attribute a financial value using HM Treasury's Green Book unit costs and proxy values.

The key achievements BAM and their supply chain partners have delivered to date are as follows;

- 29% local labour utilisation on the construction phase of the project to date

- 82 Employment opportunities (Full Time Equivalent) provided for local residents as a direct result of contract award with a social value of £2,265,889.00
- 420 weeks of apprenticeships on the contract at Level 2,3 or 4+ with a social value of £70,576.00
- 15 weeks of graduate internship placements with a social value of £2,159.00
- 12 weeks of work placements for unemployed residents
- One person recruited from HMP Kirkham via Recycling Lives following on from a paid placement
- A total of £3,493,249.95 was spent with local Lancashire based businesses
- Of which £2,296,644.95 was spent with local SME's
- 142 hours volunteered to support employability skills, STEM activity and site visits for local schools and colleges with a social value of £2,216.00

To date the Engineering & Innovation Centre has delivered a total of £5,864,644.00 of added social value during the construction phase of the project.

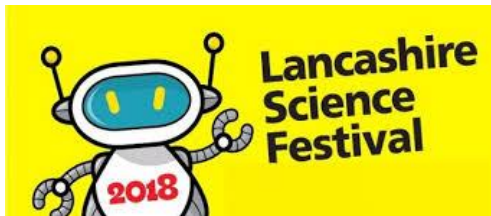
2. SOCIAL VALUE HIGHLIGHTS

2.1 Future Workforce

School Engagement

The project has engaged in a number of activities designed to provide and insight into the sector and promote STEM to local schools and colleges including:

- Lancashire Science Festival 2018: BAM Construction supported the 3 day event at



the university by providing an interactive BIM stall to demonstrate how technology is advancing design and construction through the use of 3D models, drones and more. The event, which attracted around 1500 young people from across the county was supported by volunteers from BAM's Metro

Office, the UCLan EIC and Lancaster University Health Innovation Centre site teams.

- BAM provided a total of 10 site visits to local school, college and university students. The visits were designed to inspire young people to choose construction and allow HE students access to a specific part of the build which will enhance their understanding of the built environment. These included:
 - Assembly for children at the local primary school have expressed an interest in what is happening on campus.
 - Design workshops and site visits for Architecture Foundation students
 - Open Doors site visits
 - Site visits for Construction Students
 - Site visits for Civil Engineering Students

- UCLan Careers Fair: Both BAM and AECOM attended the careers fair on 7th November 2017 to give advice to students wanting a career in construction or project management. They provided advice on CV's, skills they need for the industry and where to find work experience.

Student Engagement

A number of activities have been delivered on the project to provide students with first-hand experience of working on a live project and applying what they have studied in the workplace including:

- Piling design: Masters' students in Engineering were challenged to design the piles for the foundation of the EIC. They were given the footprint of the building and several different options to use. Once these were completed and marked the students engaged with the project manager to find out what piling design and process had been used and why.
- Environmental Impact Study: Parkinson Building Contractors worked closely with the Geography academic team to provide a project opportunity for students undertaking an Environmental course. The students, studying the impact of noise, worked closely with staff from Parkinson to monitor noise levels at the site and measure the impact of that noise in the local area. The students then analysed the recordings and use them in their coursework for the first semester.
- Pavilion Design Competition: Foundation Architecture students were set a challenge of designing a pavilion for the New Square at the EIC. After designing the pavilions the students built scale models to be exhibited in the final semester. The students benefitted from advice on drawings and design features from several architects during the design process. At the end of the module the students pitched their designs to the architects, Hawkins Brown, during a 'dragon's den' style session, with the winner receiving a work placement at the architect's Manchester office during the summer.



Graduate Internships

BAM provided two summer internships to UCLan undergraduates during 2018. The two students from who were undertaking built environment courses at the university were selected by a panel after interviews. After which the successful students were provided with 2 month paid placements working on the EIC project.

2.2 Inclusive Workforce

Local Employment

Over the duration of the construction period the project has provided employment opportunities for 82 FTE employees from the Preston areas alone and 259 from the wider Lancashire area. Local labour has accounted for 29% of the total labour utilisation to date.

Opportunities for Ex-Offenders

BAM worked in partnership with Recycling Lives, a unique business model- using commercial operations in recycling and waste management to support and sustain charity programmes for offender rehabilitation, residential support and food redistribution to deliver social value through the project. Through engaging with Recycling Lives the project was able to provide a job for a site operative recruited from HMP Kirkham following a successful work placement.



2.3 Skilled And Productive Workforce



Apprenticeship Opportunities

In addition to the providing graduate internship opportunities, the project has generated over 400 apprenticeship weeks and provided opportunities for 10 apprentices and 8 trainees working on the construction of the EIC.

Workforce Development

BAM have encouraged all involved in the project to provide and share training to upskill the existing and new workforce. A total of 55 training weeks have been delivered on the project to date including CSCS support for new entrants, First Aid, SSSTS, Behavioural Safety, Management and Leadership as well as Technical training.

2.4 Community Benefits

Local Procurement

Local supply chain event

Companies were invited to learn more about the type and timing of specific opportunities on the project, to get a better understanding of how to meet the required standards and get onto the Procurement Excellence Programme. BAM have also actively promoted an open-door policy for local companies looking to secure supply chain and subcontract opportunities on the project. This approach has been particularly successful with a total of

£3,493,249.95 spent with local Lancashire based businesses to date, of which £2,296,644.95 was spent with local SME's.

Charity and Community Work

Woodland Trust Tree Planting: BAM will be working in partnership with the Woodland Trust to supply trees be planted and create green spaces to offset



the amounting of building happening on campus. The project team will look to engage with local community groups and children to involve them in the tree planting over the coming year.

3. UCLan Engineering Innovation Centre Social Value Infographics



Lancashire Skills and Employment Framework Social Value Metrics

LANCASHIRE SKILLS & EMPLOYMENT FRAMEWORK							
Project		Engineering & Innovation Centre (UCLAN)					
Capex		£31.65M (of which £10.50M Growth Deal funding)					
THEMATIC AREA	KPI NO	Metric	Indicator	Measure	Proxy £ (per output)	To date	Social Value
FUTURE WORKFORCE	1	Working hours committed from business volunteers to support careers education and information and/or curriculum development in schools and colleges in Lancashire per year.	No. of hours dedicated to support young people into work (e.g. CV advice, mock interviews, careers guidance) - (under 24 y.o.)	no. hrs*no. attendees	£94.28	2	£188.56
			Local school and college visits e.g. delivering careers talks, curriculum support, literacy support, safety talks (No. hours, includes preparation time)	no. staff hours	£14.43	140.5	£2,027.42
	2	Number of work experience placements for 15-18 year olds per year (based on a placement being one week) at Lancashire schools and colleges	No. of weeks spent on meaningful work placements or pre-employment course; 1-6 weeks student placements (unpaid)	no.weeks	£143.94	3	£431.82
	3	Number of undergraduate project placements per year offered to Lancashire's Universities.	Meaningful work placements that pay Minimum or National Living wage according to eligibility - 6 weeks or more (internships)	no.weeks	£143.95	15	£2,159.25
	4	Number of graduate internships per year for graduates living in Lancashire			£143.95		£0.00
INCLUSIVE WORKFORCE	5	Number of employment opportunities offered to Lancashire residents that are unemployed or at a disadvantage e.g. ex-offenders.	No. of local people (FTE) employed on contract	no. people FTE	£27,632.80	82	£2,265,889.60
			% of local people employed on contract (FTE)	%	%	29%	
			No. of employees (FTE) taken on who are long term unemployed (unemployed for a year or longer)	no. people FTE	£14,701.56		£0.00
			No. of employees (FTE) taken on who are not in employment, education, or training (NEETs)	no. people FTE	£12,442.91		£0.00
			No. of employees (FTE) taken on who are rehabilitating young offenders (18-24 y.o.)	no. people FTE	£14,701.56	1	£14,701.56
			No. of jobs (FTE) created for people with disabilities	no. people FTE	£12,769.68		£0.00
	6	Number of work placements or trails offered to unemployed Lancashire residents.	No of placement weeks	no.weeks	£143.95	12	£1,727.40
	7	Working days committed from business volunteers to mentor NEET ('not in education, employment or training') people.	No. of hours dedicated to supporting unemployed people into work by providing career mentoring, including mock interviews, CV advice, and careers guidance	no. hrs*no. attendees	£94.28		£0.00

SKILLED AND PRODUCTIVE WORKFORCE	8	Number of apprenticeships (16-18 year old and Adults).	No. of apprenticeships on the contract that have either been completed during the year, or that will be supported by the organisation to completion in the following years - Level 2,3, or 4+	no.weeks	£168.04	420	£70,576.80	
	9	Commitment to workforce planning and investment in training of employees.	No. of training opportunities on contract (BTEC, City & Guilds, NVQ, HNC) that have either been completed during the year, or that will be supported by the organisation to completion in the following years - Level 2,3, or 4+	no.weeks	£235.75	55	£12,966.25	
	10	Investment in leadership skills						
COMMUNITY BENEFITS	11	Community based projects driven by the local communities in which the project is based.	Donations or in-kind contributions to local community projects (£ & materials)	£ value	£1.00		£0.00	
			No hours volunteering time provided to support local community projects	no. staff volunteering hours	£14.43	8	£115.44	
	12	Procurement and commissioning of local SMEs and social enterprises / third sector organisations	Total amount (£) spent in LOCAL supply chain through the contract.	£	£1.00	3,493,250	£3,493,249.95	
			Total amount (£) spent through contract with LOCAL SMEs	£	£1.00	2,296,645	£2,296,644.95	
			Total Social Value Generated					£5,864,034.04