

SKILLS BOOTCAMP IN CONSTRUCTION DATA SCIENTIST

<https://www.northumbria.ac.uk/skills-bootcamp-construction>

COURSE OVERVIEW

BIM activities now generate huge volumes of construction data and the management and understanding of big data is becoming increasingly important as construction strives to catch up with more technically advanced industries. Leading CONTECH firms are developing data-centric tools to help asset owners, designers and builders improve efficiencies and maximise the potential of this wealth of information. Demand for data scientists is increasing as organisations need to understand and analyse this historical data, then develop tools and dashboards to convert it into knowledge.

This course teaches appropriate data science technologies and techniques. These skillsets are in high demand, particularly with graduates and those in the first two years of their career so successful learners will stand out in job interviews. The course is aimed at Construction Data manipulation though the skills are transferable to other sectors.

Real-world examples of these skills might include the ability to interrogate data to help choose products based upon success or failure in previous projects; to look for efficiency savings or identifying problem areas; to pre-emptively highlight potential health and safety issues based upon prior experience with particular aspects of a design or site condition

HOW?

Skills Bootcamps are part of the Government's Lifetime Skills Guarantee and Plan for Jobs. This 16-week Skills Bootcamp will be delivered online with the materials being available at a time that suits you. Each week will require 16 hours of activity (including self study). You will complete practical exercises to complement the theoretical knowledge you gain on the course and will be assessed using a virtual project activity using real design models to demonstrate your understanding of the concepts covered on the course. Direct contact with experts will also be scheduled throughout the course.

IS THIS FOR YOU?

Learners must

- Have the right to live and work in the UK;
- Agree to provide the mandatory personal data and supplementary information on their employment outcomes for up to six months following completion of the Skills Bootcamp;
- Be looking for a new role, opportunity, or increased responsibility/promotion to a different role that makes use of the skills gained on the Skills Bootcamp.

Learners must be in one of the following categories:

- Employed/self-employed, or
- Career changers/returners/redeployed, or
- Unemployed within the last 12 months.

Prior knowledge

This Skills Bootcamp is aimed at those who wish to analyse and interrogate the enormous pools of data which are now being generated in the design and construction process as it moves towards methods focused around information management.

HOW MUCH?

The Skills Bootcamp is funded by the Department for Education and is free of charge for those that meet the eligibility requirements. Note, if you are being sent on this training by your employer, your employer must pay 30% of the total cost of the course (£1,200, non-refundable). Please contact us to discuss the fee structure and eligibility requirements.

WHO BY?

Northumbria University, a member of the Institute of Coding consortium, is a leader in digital construction training and heads up the International Centre for Connected Construction (IC3), a centre of excellence for digital construction with global impact. Our delivery partner White Frog have a wealth of experience in education and training in Building Information Modelling (BIM) and the construction sector.

For more information please email paul.vickers@northumbria.ac.uk