



Ellie Payne



What is your job title?

[Research Engineer](#)

Who do you work for?

[National Composites Centre](#)



What do you do?

“I research ways to use natural fibres in manufacturing, reducing the amount of material we use to make stuff and helping to make products more sustainable, lightweight and strong. I also research way of reducing the amount of maintenance products need.”

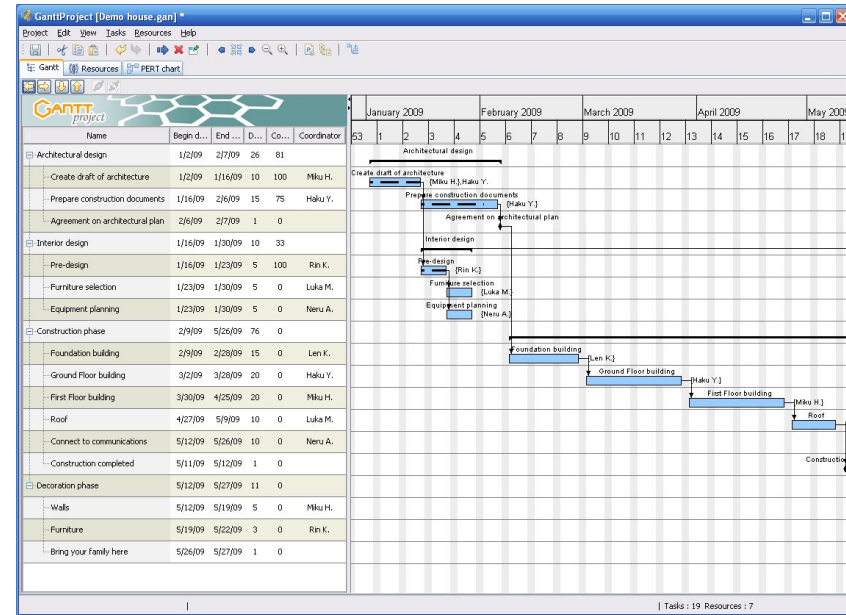
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What can you recall learning at school which helps you with your job now?

“I remember learning about materials and their properties, heat transfer and Pythagoras’s theorem in lessons, which I still use now.”

“But I also remember how to design to requirements, planning and organising (using Gantt charts), and how to write a basic excel formula - also very useful!”





How is your industry is responding to the UN's Sustainable Development Goals?



“Concrete is responsible for 8% of the world’s carbon emissions. At my company we are researching ways to use less of the problematic ingredients concrete has in it, and how to switch to alternatives to those ingredients. We want to make concrete more durable and form stronger, more sustainable building materials.”



“I am inspired by wanting to solve problems which directly lead to helping either the planet or people’s wellbeing in ways that I can see a positive result.”



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