



# JESS BOLAND

LECTURER IN FUNCTIONAL  
MATERIALS AND DEVICES

@DrJessBoland

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## KEYWORDS

functional  
devices

## WATCH

<https://youtu.be/pMHWdMxcztw>

## ABOUT JESS

### HER JOURNEY INTO STEM

Jess' journey into STEM was not the most conventional one. When she was at school, she really wanted to become a professional ballerina!

However, her mom convinced her to keep her options open (as she was 5ft). During this time, Jess discovered that she loved problem solving - whether it was thinking about real-world problems in physics, or working out translation for Latin poetry.

Jess' maths teacher encouraged her to explore a physics degree, as she was always asking how maths could be applied to the real world. That set her on her current STEM path, studying physics as an undergraduate at Exeter and a PhD at Oxford and finally becoming a lecturer in Electrical Engineering at University of Manchester. She hasn't looked back since!

### HER JOB

Jess' job is split between teaching undergraduate students about electronic materials and her research. For her research, she spends time in the lab playing with lasers (some are bigger than she is) and aligning them onto samples to have a look at their properties.

### HER HOBBIES

Jess really enjoys singing, playing the piano and always blasting out show tunes at home. She also likes going for long walks and cycling.

## THE QUESTION JESS WANTS TO ANSWER IS...

I would love to work out how we can make devices smaller, faster, smarter but most importantly more energy-efficient!

## JESS' QUESTION FOR YOU...

Think about the different type of materials they see around them and what you think they would be useful for. Which do you think would be useful in an electronic device such as a smartphone?