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SCISOC SPOTLIGHT

BY THE CAMBRIDGE UNIVERSITY SCIENTIFIC SOCIETY

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MATERIALS SCIENCE
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RESEARCH FOCUS:

LIGHT EMITTING
SEMICONDUCTOR
MATERIALS.

My research interests focus on the **characterisation and exploitation of nanoscale (very small!) structures in semiconductor materials, particularly gallium nitride (GaN)**. The broad aim of my work is to achieve improved performance in **GaN-based electronic and optoelectronic devices** and to develop and implement novel device concepts.

WHY RESEARCH?

I've always been really interested in the properties of the materials around me, and what causes them. As a child, I used to drive my Mum mad with questions like "Why isn't milk transparent?" and "Why does metal feel colder than stone on a snowy day?" Doing a degree in Materials Science in Engineering, answered some of my questions, but also opened up loads of others, so carrying on to research Materials Science further struck me as an exciting prospect.



"It's important to focus on the questions that really interest you!"

ONE PIECE OF ADVICE...

Research can be tough and frustrating at times, but if you really care about the questions you're trying to answer it will help you stay the course.