



## Apply here

### Start date

Flexible

### Duration

6 months

### Languages

Good spoken and written English levels are required (B2 onwards)

### Location

#### Oxford, England

The city of Oxford rivals London when it comes to the title of “most known city” in the UK. This is because of its magnificent history and the presence of Oxford University, one of the most renowned universities in the world. Amazing medieval architecture blends well with the modern aspect of the city where you can eat, drink, shop, explore and have a great time.

### Are you eligible?

You are eligible for an ESPA internship if you are a registered student or have graduated within the past two years and have access to some form of grant funding.

### Benefits

See website for details of all ESPA benefits. For all internships over 6 months, additional benefits will be paid. Details available at interview.

## Role

This is an exciting role for a dynamic and dedicated third year student or masters student in Material Science, Physics or related field, to work with a team of expert chemists, materials scientists and physicists. Mentored throughout, you will characterise the host company’s new materials, record performance, analyse and propose mechanisms of degradation. This hands-on role will provide fantastic opportunities to learn new skills and apply your knowledge in a commercial setting, as well as being a great addition to your CV!

## Tasks

### Experimental:

- Make films of the company’s nanocrystals using spin coating or blade coating techniques
- Prepare encapsulation of these films
- Set up environment test and film characterisation
- Plan and execute experiments under the guidance of an expert principal scientist
- Report on experimental procedures and results

### Data Processing Development

- Help improve data recording and handling to make it more efficient
- Develop new or adapt pre-existing python scripts, for data handling and processing improvement

## Desired Skills

- At least third year of a degree in Physics, Material Science, Natural Science or similar
- Some experience of working with laboratory characterisation equipment of materials and recording data
- Knowledge of Python coding
- Excellent communication, interpersonal skills, and team working skills
- Strong organisation and record-keeping skills

## The Host Company

The host company is a team of experts that is creating materials based on the outstanding properties of metal halide perovskites, for a new generation of brighter and more colourful displays that use significantly less power. Working with the best scientific and commercial minds in their field, the company expedites solid research and development. This dynamic start-up is entering an exciting new phase of expansion and are looking for a motivated and creative candidate to join their team!