

Senior Waveguide Engineer – modelling

WaveOptics is a world leading designer and manufacturer of revolutionary Augmented Reality (AR) waveguides. Our waveguides have a balance of attributes that deliver a superior display to the widest range of users with a high level of comfort.

This, together with an effective manufacturing process, makes immersive AR commercially viable and accessible to multiple industries.

We are looking for a Senior Waveguide Engineer to join our experienced team.

The role:

- Based in our design centre in Abingdon, you will be reporting to the head of the development team.
- The role will be to research and develop new optical modelling approaches
- Correlate modelled with measured results, to improve the fidelity and predictive power of models
- Incorporate data from physical measurements of nanostructures into models (from SEM, AFM etc)
- Specification and coding of automation software to allow efficient modelling of performance of our advanced photonic crystal surface-relief grating optics
- Analysis of design windows for operation to-specification and interfacing to our Operations team in order to validate the measured performance vs. model

What we need to see:

- Masters/PhD in mathematics, physics, Optics or engineering
- Strong algorithm development, numerical optimisation and programming skills (C++, Python, MATLAB)
- Expertise in physical/wave optical modelling and verification techniques (FDTD, RCWA/FMM etc)
- Numerical analysis and data visualization using tools such as MATLAB or the Scientific Python stack
- Strong verbal / written communication and reasoning skills
- experience using wave optical modelling tools such as Lumerical, UNIGIT or Gsolver would be an advantage.

The company offers competitive salaries and benefits package – but the key reason to join is to be at the forefront of a new, exciting technology with enormous potential for global adoption in the coming years.

Our location has good train links from the outskirts of London, Reading, Oxford and Swindon.

To apply to join our fantastic team, please send your CV to c.graham@enhancedworld.com

Closing date: 31st December 2017