Join the Wits Structured Light team in 2022

MSc, PhD and Post Doc positions available www.structured-light.org



We have a range of exciting projects:

- APPLIED: X-ray wave shaping for diamond detection with De Beers
- APPLIED: Laser design and development with Hensoldt
- APPLIED: High-power laser work with the CSIR
- APPLIED: Novel photonic devices with our new spin-out company
- QUANTUM: Secure quantum communication using entanglement
- QUANTUM: Teleportation of quantum states
- QUANTUM: Interaction-free imaging
- LIGHT: Optical trapping and tweezing (using light to move particles) of quantum dots
- LIGHT: Exotic states of structured light, including Skyrmions, optical particles and singularities, and accelerating light
- LIGHT: Robust states of light through complex media, including turbulence, living tissue and optical fibre

We can tailor the project to be experimental, theoretical and/or computational, and usually teach students all three. More details can be found at: <u>www.structured-light.org</u>

Please email <u>Prof. Andrew Forbes</u> to meet for more information BEFORE the end of October 2021.

Please have a look here for more about who we are and what we do:

https://www.youtube.com/watch?v=r4fDhGPvIw0&feature=youtu.be https://www.youtube.com/watch?v=BqNcTTGJNIM https://www.studyinternational.com/news/wits-university-makes-light-work/