Postdoc Opportunities in Australia

TMOS
ARC CENTRE OF EXCELLENCE FOR
TRANSFORMATIVE META-OPTICAL SYSTEMS

What is TMOS?

We are a 7-year ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS) funded by the Australian government with $34.9 million over 2020-2027, with additional support from the universities and industry.

TMOS aims to develop the next generation of smart and miniaturised optical systems with functionalities beyond what is conceivable today. Our research will underpin future technologies, including real-time holographic displays, artificial vision for autonomous systems to see the invisible, wearable medical devices and ultra-fast light-based WiFi.

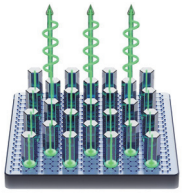
Who are we?

TMOS team includes 15 chief investigators, who are the leading experts in fundamental and applied physics and engineering at five Australian universities: The Australian National University (Canberra, headquarters), The University of Melbourne (Melbourne), University of Technology Sydney (Sydney), The University of Western Australia (Perth), RMIT University (Melbourne). TMOS has 19 partners in industry and international organisations.

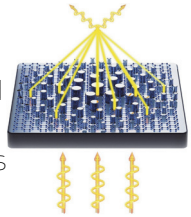
What are our Centre goals?

TMOS' research program aims to discover the fundamentals of light-matter interactions in nanostructured materials and translate cutting-edge science to practical applications of meta-optics.

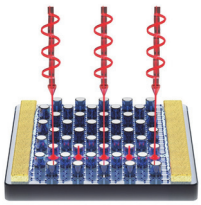
The three research themes of TMOS are focused on:



Generation of light in nanoscale optical systems with controlled wavefront, coherence and quantum properties



Manipulation of light using dynamic holography and neuromorphic meta-optics

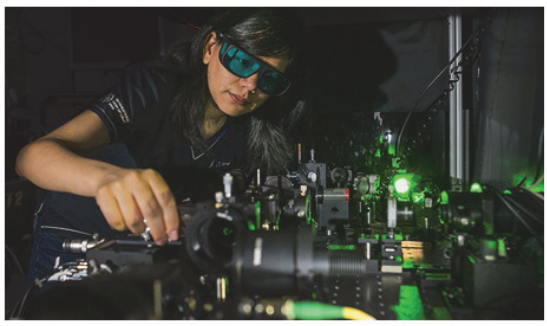


Detection and imaging of the invisible properties of classical and quantum light across the entire spectrum

Who are we looking for?

We have 15 postdoc positions on offer. We are looking for enthusiastic researchers with a demonstrated expertise in experimental and theoretical photonics and a keen interest in performing cutting-edge research on metasurfaces and nanoresonators, micro/nano-fabrication, quantum nanophotonics, optical sensors, 2D and semiconductor materials, nanoscale lasers, light emitters and photodetectors, liquid crystals, MEMS, NEMS, and other related fields in context of meta-optics.

Student PhD scholarships are also available!



How do you Benefit from being a postdoc with TMOS?

Join an outstanding multi-disciplinary, collaborative environment with access to state-of-the-art facilities. Furthermore, you will benefit from:

- Collaborations with leading international organisations and industry
- Strong engagement with a wide range of outreach activities
- Career development opportunities and mentorship support
- Extra support grants for those with carer/family responsibilities

We strongly believe that diversity improves ideas and innovation and leads to better outcomes and productivity.

Sparked your Interest? Want more Information?

We launch the first formal call for postdoc applications in 2020. Follow us online for the updates.

Website: https://tmos.org.au/opportunities/

Twitter: @MetaOptics

Linkedin: https://www.linkedin.com/company/arctmos/

Australian Government
Australian Research Council

Australian National University

THE UNIVERSITY OF MELBOURNE

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THE UNIVERSITY OF WESTERN AUSTRALIA

RMIT UNIVERSITY