

Research Associate/Research Fellow (Ink Formulations)
Nanyang Technological University

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Posted Feb. 7, 2024, set to expire Jun. 8, 2024

Job Title	Research Associate/Research Fellow (Ink Formulations)
Department	School of Materials Science & Engineering (MSE)
Institution	Nanyang Technological University Singapore , Singapore, Singapore
Date Posted	Feb. 7, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate Research Professor
Academic Field(s)	Sciences - General Materials Sciences/Polymer Sciences
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Job Description	

The School of Materials Science & Engineering (MSE) invites applications for the position of Research Associate/Research Fellow.

The Research Associate/Research Fellow will help advance foundational knowledge in making polymer composite formulations for high performance stretchable waveguides. The Research Associate/Research Fellow will employ knowledge in polymer chemistry, composites and optics to

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develop novel polymer formulations.

Key Responsibilities:

- Develop specialized polymer formulations with high stretchability, transparency, and low optical loss
- Utilize 3D printing technology to create waveguides from the developed polymer formulations
- Conduct comprehensive experiments to optimize polymer properties for waveguide applications
- Collaborate with the team to integrate formulated polymers into functional waveguide structures
- Characterize optical properties and ensure structural integrity of fabricated waveguides

Job Requirements:

- Minimally Master's degree in polymer science, polymer engineering, or materials science
- Applicants with PhD preferred
- 4-5 years of research experience in polymer-related fields, inclusive of PhD study period
- Expertise in polymer synthesis, particularly UV curable formulations
- Proficiency in 3D printing techniques, especially for optical applications
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Background in optical sensor assembly and testing

We regret that only shortlisted candidates will be notified.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

School of Materials Science & Engineering (MSE)
Nanyang Technological University
Singapore