

Senior Research Fellow/Research Fellow (Additive
Manufacturing for a Combinatorial Study)
Nanyang Technological University

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Posted Feb. 8, 2024, set to expire Jun. 9, 2024

Job Title	Senior Research Fellow/Research Fellow (Additive Manufacturing for a Combinatorial Study)
Department	Singapore Centre for 3D Printing (SC3DP)
Institution	Nanyang Technological University Singapore , Singapore, Singapore
Date Posted	Feb. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Research Professor
Academic Field(s)	Engineering - Other
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-for-a-Combinatorial-Study-_R00016135
Apply Online Here	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-for-a-Combinatorial-Study-_R00016135

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Job Description

The Singapore Centre for 3D Printing (SC3DP) offers a full range of additive manufacturing services, from design and infrastructure to production and validation. With advanced technologies such as topology optimization, generative design, and bioinspired design, SC3DP creates optimized products

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using a variety of novel materials and printing processes, including hybrid printing, post-processing, and emerging technologies. Sustainability is a top priority for SC3DP, which offers material development and control services that combine artificial intelligence, big data, and other digital tools for process optimization, as well as non-destructive testing for AM parts. Backed by a team of experts and a state-of-the-art facility equipped with the latest equipment and technologies, SC3DP is committed to leading the way in sustainable additive manufacturing research and development.

Key Responsibilities:

- Perform development activities related to additive manufacturing for a combinatorial study
- Prepare technical reports, journal papers and liaise with collaborators
- Collaborate with industrial partners to commercialize and spin out technology platforms
- Research design and deploy industrial demonstrator
- Manage and deliver project KPIs and objectives
- Ensure milestone delivery according to plan/schedule, manage/control project risks & mitigating actions
- Prepare/consolidate periodic reports (finance, technical) as required
- Manage project documentation, knowledge/data capture and reporting
- Manage logistical issues and laboratory inventory
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Ensure compliance with health and safety in all aspects of the research work

Job Requirements:

- PhD degree in Materials Science and Engineering or closely related discipline
- Strong expertise in relevant knowledge domains and familiar with processing, characterization and property evaluation of magnetic materials
- Knowledge of synthesis, characterization and property evaluation of high-performance materials
- Knowledge of manufacturing technologies
- Energetic and self-motivated
- Excellent interpersonal and communication skills, and ability to work in a diverse, interdisciplinary research environment
- Experience in schedule and resource planning
- Ability to work well with multiple competing priorities, manage projects and meet deadlines
- Ability to work independently and as part of a team with strong initiatives
- Evidence of research output, communication, and interpersonal skills
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Strong record of scientific/industrial impact within a composites/materials/engineering sector

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

Singapore Centre for 3D Printing (SC3DP)
Nanyang Technological University
Singapore