

Senior Research Fellow/Research Fellow (Additive  
Manufacturing of a Multimaterial Magnet)  
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=232132>

Downloaded On: May. 9, 2024 4:00pm

Posted Mar. 1, 2024, set to expire Jun. 30, 2024

<b>Job Title</b>	Senior Research Fellow/Research Fellow (Additive Manufacturing of a Multimaterial Magnet)
<b>Department</b>	SC3DP
<b>Institution</b>	Nanyang Technological University Singapore , Singapore, Singapore
<b>Date Posted</b>	Mar. 1, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Research Scientist/Associate Research Professor
<b>Academic Field(s)</b>	Engineering - Other
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-of-a-Multimaterial-Magnet-_R00016136">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-of-a-Multimaterial-Magnet-_R00016136</a>
<b>Apply Online Here</b>	<a href="https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-of-a-Multimaterial-Magnet-_R00016136">https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Senior-Research-Fellow-Research-Fellow--Additive-Manufacturing-of-a-Multimaterial-Magnet-_R00016136</a>
<b>Apply By Email</b>	
<b>Job Description</b>	

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

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topology optimization, generative design, and bioinspired design, SC3DP creates optimized products 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 of a multimaterial magnetic core
- 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