

Research Fellow (Engineer, 3D Printer Hardware Developer)
Nanyang Technological University

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

Job Title	Research Fellow (Engineer, 3D Printer Hardware Developer)
Department	School of Mechanical and Aerospace Engineering
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Feb. 8, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Mechanical Engineering
Job Website	https://ntu.wd3.myworkdayjobs.com/en-US/Careers/details/Research-Fellow--Engineer--3D-Printer-Hardware-Developer-_R00016132
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Apply By Email	
Job Description	

The School of Mechanical & Aerospace Engineering (MAE) invites applications for the position of Research Fellow (Engineer, 3D Printer Hardware Developer).

Key Responsibilities:

The Research Fellow will be responsible for completing the construction and development of multi-

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material micro-nano 3D printers (experimental platforms) based on new processes, and to realize the manufacture and application of parts.

- Design the mechanical structure, control system architecture scheme, CAD model slicing scheme of the new multi-material micro-nano 3D printer, and complete the construction and development of the mechanical system;
- Based on the mechanical structure of the designed multi-material micro-nano 3D printer and the required process route, the automation of the system is realized, and the coupling development of the multi-material micro-nano 3D printer machinery and control system is completed;
- Realize the successful manufacture and application exploration of multi-material composite parts with complex shapes;
- Technical write up and presentation.

Job Requirements:

- PhD Degree in Mechanical Engineering/Automation/Control/Material Processing/Robotics.
- Experience in Design, construction and system integration of complex precision mechanical equipment.
- Experience in Additive manufacturing process and materials based on vat light curing (SLA, DLP).
- Preferably with experience or research experience building 3D printers from the ground up.
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Experience in C/C++ programming for embedded system and Machine GUI Design.

- Experience in development of SLA, DLP 3D printer (experimental platform);
- Experience in Preparation and application of functional polymers
- Experience in Solve practical engineering problems in the process of automation equipment development
- A team player and technically motivated to solve problems.
- Good interpersonal and communication skills.

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