

Research Fellow (Materials Science/ Chemical
Engineering/ Physics)
Nanyang Technological University

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Posted Apr. 21, 2025, set to expire Aug. 21, 2025

Job Title	Research Fellow (Materials Science/ Chemical Engineering/ Physics)
Department	NTI-NTU Corporate Laboratory
Institution	Nanyang Technological University Singapore, , Singapore
Date Posted	Apr. 21, 2025
Application Deadline	Open untill filled
Position Start Date	Available Immediately
Job Categories	Research Scientist/Associate
Academic Field(s)	Materials Sciences/Polymer Sciences
Job Website	https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Materials-Science--Chemical-Engineering--Physics-_R00020448
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Job Description	

NTI-NTU Corporate Laboratory is a collaboration between Nanofilm Technologies International Limited ("Nanofilm", "NTI"), Nanyang Technological University ("NTU") and supported by Singapore under RIE2025. The Laboratory's objective is to propel Innovation and Technologies commercialisation

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through NTU's innovation and NTU's deep technology. NTU-NTU Corporate Laboratory aligns with Singapore's RIE2025 handbook – which emphasises the nation's commitment to research and innovation, aiming to drive economic growth and address national challenges.

The Nanyang Technological University NTU-NTU Corporate Laboratory is seeking to hire a Research Fellow. The selected candidate will characterize and analysis the thin composite materials and thin film coatings.

Key Responsibilities:

- Support the development and optimization of plasma-based PVD and CVD processes for advanced material applications.
- Operate and maintain semiconductor analysis and metrology tools to evaluate thin film and device properties.
- Lead and execute independent investigations, ensuring accurate interpretation of experimental data and effective communication of key findings.
- Plan, implement, and refine experimental methodologies to validate hypotheses and explore novel material behaviors.
- Leverage data analytics platforms, coding skills, and simulation environments to enhance process understanding and improve outcomes.
- Contribute to scaling R&D concepts into practical engineering solutions, bridging the gap between research and application.
- Compile and present detailed technical documentation and progress reports to fulfill the requirements of funding bodies and internal project milestones.

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Job Requirements:

- Ph.D. in Materials Science, Chemical Engineering, Physics, or a closely related field.
- At least 2 years of combined specialized post-doctoral experience in industry or a recognized research institute.
- Extensive research experience in the characterization of thin film coatings, with a strong emphasis on semiconductor or relevant characterization techniques.
- Applicants must demonstrate effective collaboration skills in multidisciplinary settings.

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