

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

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

<b>Job Title</b>	Research Fellow (Materials Science/ Chemical Engineering/ Physics)
<b>Department</b>	NTI-NTU Corporate Laboratory
<b>Institution</b>	Nanyang Technological University Singapore, , Singapore
<b>Date Posted</b>	Apr. 21, 2025
<b>Application Deadline</b>	Open untill filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Research Scientist/Associate
<b>Academic Field(s)</b>	Materials Sciences/Polymer Sciences
<b>Job Website</b>	<a href="https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Materials-Science--Chemical-Engineering--Physics-_R00020450">https://ntu.wd3.myworkdayjobs.com/Careers/job/NTU-Main-Campus-Singapore/Research-Fellow--Materials-Science--Chemical-Engineering--Physics-_R00020450</a>
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<b>Apply By Email</b>	
<b>Job Description</b>	

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 NTI's deep technology. NTI-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 NTI-NTU Corporate Laboratory is seeking to hire a Research Fellow. The selected candidate will deposit and characterized oxide/nitride and other types of thin composite materials and thin film coatings.

**Key Responsibilities:**

- Operate and optimize PVD and CVD plasma-based processes for advanced thin film deposition.
- Perform oxide and nitride composite thin film deposition, followed by in-depth materials characterization using relevant techniques.
- Conduct independent research, including experimental design, data collection, and interpretation, to support project objectives.
- Apply strong analytical and problem-solving skills to develop experimental methods, troubleshoot process issues, and interpret complex data sets.
- Utilize data analysis software, simulation tools, and relevant programming languages for modeling, process optimization, and reporting.
- Manage the transition from lab-scale experimentation to scalable, production-ready solutions in collaboration with engineering teams.
- Prepare and deliver comprehensive technical reports and documentation to fulfill grant requirements and internal/external stakeholder expectations.

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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 composite coatings, with a strong emphasis on oxide and nitride composite thin film coatings.
- 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