

Research Engineer and Ph.D. Candidacy (NUS–EDB IPP with Micron)	
Job Title	Research Engineer and Ph.D. Candidacy
Collaborating Company	Micron Technology – NUS Joint Research Programme
Project Details:	Economic Development Board Industrial Postgraduate Programme (NUS–EDB IPP)
Job Posting Information	
Job Description	Micron Technology, one of the world's leading innovators in memory and storage solutions, is partnering with the National University of Singapore (NUS) to develop next-generation semiconductor technologies that will enable future artificial intelligence, high-performance computing, and data-centric applications. As a global leader in DRAM and NAND flash memory, Micron plays a critical role in shaping the digital infrastructure that powers modern society. Building upon Micron's strong commitment to innovation and advanced manufacturing, this collaborative research programme seeks to push the boundaries of semiconductor device engineering for future memory technologies. We are seeking highly motivated and talented candidates who are passionate about semiconductor research and aspire to become future technology leaders. Successful applicants will join a multidisciplinary research team working at the forefront of 3D NAND memory technology, while pursuing a Ph.D. degree through the NUS Industrial Postgraduate Programme. The selected candidate will conduct fundamental and applied research to explore the performance limits of Si transistors for next-generation 3D NAND flash memory architectures. It encompasses activities including innovative advanced silicon crystallization techniques to realize near-single-crystalline silicon and in depth research on the relationships among material microstructure, crystallization conditions, device physics, and transistor performance, enabling enhanced carrier transport, improved device reliability, and superior electrical performance for 3D integrated memory devices. The selected candidate will be expected to collaborate closely with researchers and engineers from Micron and NUS, and contribute to cutting-edge innovations that may define future generations of memory devices used in artificial intelligence, cloud computing, mobile electronics, and data centres worldwide.
Job Requirements	We are seeking highly motivated candidates to enrol in the Ph.D. Industrial Postgraduate Programme. Successful applicants will be full-time employees of Micron Singapore and concurrently pursue doctoral studies at NUS in Electrical and Computer Engineering. • B.Eng/B.Sc./M.Eng/M.Sc. in Electrical Engineering, Materials Science, Physics, or related fields. • Demonstrated academic excellence and passion for R&D. • Singapore Citizen or Singapore Permanent Resident. Candidates are subjected to selection by NUS ECE Dept and Micron. Successful applicants will receive a scholarship and employment contract with Micron Singapore. Work will be conducted jointly at NUS and Micron Singapore facilities. Employment terms are defined by Micron Technology.
Contact	Interested applicants should send a motivation letter, curriculum vitae, and publication list to: • Zhu Chunxiang, Assoc Professor, Email: elezhucx@nus.edu.sg • Fabio Pellizzer, Fellow of Micron, Email: fpellizz@micron.com