

Job Title	Simulation Engineer - TCAD
Location	Bengaluru

Job Responsibilities

Tokyo Electron India is looking for a **Simulation Engineer – TCAD** to join their Simulation Technology Group. The TCAD Engineer will build and calibrate TCAD models for a wide range of semiconductor devices. Using these models, the TCAD Engineer will run extensive simulations towards development and optimization of Tokyo Electron’s products. In addition, the TCAD Engineer will be involved in the physics-based models of process integration flows for advanced logic and memory technology nodes.

Key Responsibilities:

- Develop and calibrate TCAD models for advanced logic and memory technology nodes
- Use the developed models to quantify device-level impact of process changes
- Simulate process integration flows for the latest technology nodes
- Build physics-based models to capture nanoscale device phenomena
- Work with other simulation engineers to guide the development and optimization of next generation semiconductor production equipment

Requirement

- Ph.D. in Microelectronics, Physics with a strong background in semiconductor device physics and semiconductor process technology
- At least 2 years of Post doctorate / industry experience
- Possesses strong knowledge of process integration flows for advanced technology nodes
- Experience in Hands-on cleanroom/Fab in PVD/CVD/ALD processes
- Familiar with more than one TCAD simulator is preferred
- Strong strategic planning, problem solving and decision-making abilities.
- Ability to work in a challenging and fast-paced customer-focused and industrial environment
- Fluency in Japanese is preferred
- Open to travel when needed

We regret that only shortlisted candidates will be notified.

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Date Created: May 2026

Job Reference Number: