



**About Micron:** We are an industry leader in innovative memory and storage solutions transforming how the world uses information to enrich life for all. With a relentless focus on our customers, technology leadership, and manufacturing and operational excellence, Micron delivers a rich portfolio of high-performance DRAM, NAND and NOR memory and storage products. Every day, the innovations that our people create fuel the data economy, enabling advances in artificial intelligence (AI) and compute-intensive applications that unleash opportunities — from the data center to the intelligent edge and across the client and mobile user experience.

At Micron India, you will be a part of one of the fastest ramps in Indian semiconductor history. We are ranked among the Top 50 organizations for India's Best Workplaces in Manufacturing 2025 rankings by Great Place to Work Institute. In the last six years, we have built an operations footprint with 20 centres of excellence and grown to over 4000 team members. We nurture a culture that is fair, fearless and fun that works to enhance personal and professional development at every level.

**Culture and Values at Micron:** As a leader in memory solutions our team members, partners, customers, and leadership work closely together to deliver setting a high bar for ourselves and our industry. We believe transformation always starts from within and our core values are driven by the following 5 pillars:

- People - We care about each other.
- Innovation - We develop solutions that shape the world's future.
- Tenacity - Nothing shakes our resolve.
- Collaboration - We work as one team.
- Customer Focus - We win by knowing our customers

### **About profile- AI VPM R2R Engineering**

As an Advanced Modeling Engineering Intern at Micron Technology, Inc., you will be working in the Technology Development (TD) group supporting the modeling and simulation of next generation memory technologies! This position is in Hyderabad, IN, where you will work with a team of engineers working on various advanced modeling programs.

Your role comprises mainly of executing a project working with the team across Hyderabad, IN, and Boise, ID. This project can involve developing and validating process/structure models. You will report results to the TD team of modeling engineers and collaborating with them on next steps. This position seeks individuals that can code and implement predictive and prescriptive models!

### **Qualifications:**

- Independence – be comfortable executing on projects and maintaining documentation
- Advanced skills in level set method (LSM) for CAD, meshing, DOE, analysis, rendering
- Experience in computational geometry, virtual structure modeling, numerical methods and scientific computing
- Experience in Victory Process, Abaqus, ANSYS, SPX and SEM3D
- Strong background in constitutive modeling in solid mechanics, and Finite Element Analysis (FEA)

- Experience with thermo-mechanical modeling is desirable
- Familiarity with semiconductor process integration is desirable
- Familiarity with machine learning and deep learning concepts and applications
- Strong debug and problem-solving skills
- Experience with reports and presentations customized for users, managers and leaders
- Excellent written and verbal communication
- Outstanding teamwork and experience with remote collaboration tools

**Education Requirement & eligibility:**

- Pursuing (final-year candidates) MS or Ph.D. in Applied Mechanics, Materials Science, Mechanical Engineering, Engineering Physics, or related fields. Prior modeling experience in semiconductor domain is desirable.
- CGPA requirements = 7.0 CGPA & Above

**Location:**

Hyderabad

**Micron by Numbers:**

- \$37.38B FY'25 annual revenue
- 170 on the 2025 Fortune 500
- 60,000 patents granted and growing
- 30+ major cities worldwide with Micron offices
- 13 manufacturing sites\* and 13 customer labs
- 21 design center locations
- ~ 54,000 team members
- Official Website: <http://www.micron.com>



**About Micron:** We are an industry leader in innovative memory and storage solutions transforming how the world uses information to enrich life for all. With a relentless focus on our customers, technology leadership, and manufacturing and operational excellence, Micron delivers a rich portfolio of high-performance DRAM, NAND and NOR memory and storage products. Every day, the innovations that our people create fuel the data economy, enabling advances in artificial intelligence (AI) and compute-intensive applications that unleash opportunities — from the data center to the intelligent edge and across the client and mobile user experience.

At Micron India, you will be a part of one of the fastest ramps in Indian semiconductor history. We are ranked among the Top 50 organizations for India's Best Workplaces in Manufacturing 2025 rankings by Great Place to Work Institute. In the last six years, we have built an operations footprint with 20 centres of excellence and grown to over 4000 team members. We nurture a culture that is fair, fearless and fun that works to enhance personal and professional development at every level.

**Culture and Values at Micron:** As a leader in memory solutions our team members, partners, customers, and leadership work closely together to deliver setting a high bar for ourselves and our industry. We believe transformation always starts from within and our core values are driven by the following 5 pillars:

- People - We care about each other.
- Innovation - We develop solutions that shape the world's future.
- Tenacity - Nothing shakes our resolve.
- Collaboration - We work as one team.
- Customer Focus - We win by knowing our customers

**About profile – Intern, (Global Automation and Software Team):**

As an intern, you will join the Global Automation (GAT) and SSD Software team, contributing to the development and enhancement of advanced automation solutions and software for storage technologies. You will have the opportunity to collaborate with experienced engineers, participate in real-world projects, and gain hands-on experience in a dynamic, innovative environment. This role offers exposure to software development, automation frameworks, and validation processes, as well as cross-functional collaboration with system architects and product engineering teams.

**Roles & responsibilities can include but are not limited to:**

Agentic AI & Intelligent Systems Development

- Design, build, and evolve Agentic AI systems capable of autonomous reasoning, planning, tool usage, and multi-step execution.
- Develop multi-agent architectures for complex workflows such as code analysis, automation, diagnostics, and decision support.
- Implement agent orchestration frameworks integrating LLMs, tools, memory, and feedback loops to enable reliable and explainable outcomes.

AI/ML Platform & Backend Engineering

- Design and develop scalable backend services and APIs (Python-first) to support AI agents, model inference, and orchestration layers.
- Integrate AI services with enterprise data sources, pipelines, and internal tools.
- Build secure, extensible microservices to expose AI capabilities across platforms and teams.

#### Machine Learning & Generative AI

- Develop, fine-tune, and deploy machine learning and deep learning models for prediction, classification, and intelligent automation.
- Implement Generative AI solutions for code intelligence, summarization, recommendation systems, and conversational interfaces.
- Optimize models and inference pipelines for latency and scalability in production environments.

#### Tooling, Automation & AI Enablement

- Build AI-powered developer tools and automation systems that improve engineering productivity and software quality.

#### Collaboration & Engineering Excellence

- Work closely with software and firmware engineers, product teams, and platform stakeholders to deliver end-to-end AI solutions.

#### **Qualification:**

- Strong proficiency in Python with experience building backend systems and AI-driven services.
- Hands-on experience with AI/ML frameworks such as TensorFlow, PyTorch, or equivalent.
- Practical experience with LLMs, Generative AI, and agent-based systems (e.g., tool-calling, RAG, multi-agent workflows).
- Knowledge of model training, fine-tuning, evaluation, and deployment in cloud or on-premise environments.
- Experience with API design, microservices, and system integration.
- Familiarity with Git, CI/CD pipelines, containerization, and orchestration (Docker, Kubernetes).

#### **Education Requirement & eligibility:**

- Master's Degree in Computer Science Engineering
- CGPA requirements = 7.0 CGPA & Above

#### **Location:**

Hyderabad/ Bangalore

#### **Micron by Numbers:**

- \$37.38B FY'25 annual revenue
- 170 on the 2025 Fortune 500
- 60,000 patents granted and growing
- 30+ major cities worldwide with Micron offices
- 13 manufacturing sites\* and 13 customer labs

- 21 design center locations
- ~ 54,000 team members
- Official Website: <http://www.micron.com>



**About Micron:** We are an industry leader in innovative memory and storage solutions transforming how the world uses information to enrich life for all. With a relentless focus on our customers, technology leadership, and manufacturing and operational excellence, Micron delivers a rich portfolio of high-performance DRAM, NAND and NOR memory and storage products. Every day, the innovations that our people create fuel the data economy, enabling advances in artificial intelligence (AI) and compute-intensive applications that unleash opportunities — from the data center to the intelligent edge and across the client and mobile user experience.

At Micron India, you will be a part of one of the fastest ramps in Indian semiconductor history. We are ranked among the Top 50 organizations for India's Best Workplaces in Manufacturing 2025 rankings by Great Place to Work Institute. In the last six years, we have built an operations footprint with 20 centres of excellence and grown to over 4000 team members. We nurture a culture that is fair, fearless and fun that works to enhance personal and professional development at every level.

**Culture and Values at Micron:** As a leader in memory solutions our team members, partners, customers, and leadership work closely together to deliver setting a high bar for ourselves and our industry. We believe transformation always starts from within and our core values are driven by the following 5 pillars:

- People - We care about each other.
- Innovation - We develop solutions that shape the world's future.
- Tenacity - Nothing shakes our resolve.
- Collaboration - We work as one team.
- Customer Focus - We win by knowing our customers

### **About profile- AI VPM R2R Engineering**

As an Advanced Modeling Engineering Intern at Micron Technology, Inc., you will be working in the Technology Development (TD) group supporting the modeling and simulation of next generation memory technologies! This position is in Hyderabad, IN, where you will work with a team of engineers working on various advanced modeling programs.

Your role comprises mainly of executing a project working with the team across Hyderabad, IN, and Boise, ID. This project can involve developing and validating process/structure models. You will report results to the TD team of modeling engineers and collaborating with them on next steps. This position seeks individuals that can code and implement predictive and prescriptive models!

### **Qualifications:**

#### ML and Agentic Solutions

- Design and develop agentic AI systems with autonomy, planning, reasoning, memory, and selfcorrection.
- Architect singleagent and multiagent systems, including coordination, role specialization, and task orchestration.

- Hands-on-experience on working with any of the frameworks such as LangGraph, LangChain, CrewAI, Google ADK etc.
- Translate highlevel business objectives into Aldriven workflows executed by autonomous agents.
- Integrate Large Language Models (LLMs) into agent frameworks, including prompting strategies, tool calling, context management, and longterm memory.
- Evaluate when traditional automation is sufficient versus when adaptive, agentic intelligence is required.
- Good hands on knowledge of ML and statistical techniques.

#### UI / UX & HumanCentered AI

- Design intuitive, trustworthy user interfaces and experiences for Aldriven systems.
- Build humanintheloop workflows that allow users to guide, review, override, and collaborate with agents.
- Surface agent planning, reasoning, and decisions through clear UI signals, explanations, and feedback.
- Partner with product and design teams to create dashboards, conversational interfaces, and interaction flows.
- Apply UX principles to reduce cognitive load and ensure AI outputs are actionable, explainable, and aligned with user intent.

#### Governance, Safety & Enterprise Readiness

- Implement governance and safety guardrails for autonomous agents, including validation, fallback, and recovery mechanisms.
- Deliver secure, compliant, scalable, productionready AI solutions across cloud, private, and hybrid environments.
- Align AI behavior with organizational policies, risk controls, and ethical standards.

#### Scientific Computing & Process Control

- Strong experience in algorithm development, numerical methods, and scientific computing.
- Expertise in process control algorithms, optimization techniques, and process-based model development.
- Strong understanding on Linear and Non – Linear Model Predictive Control.
- Experience with physics informed neural networks (PINNs) and related methods.
- Experience packaging Python code into applications and working in HPC Linux environments.
- Background in solid mechanics, fracture mechanics, and computational materials science.

#### Documentation and Soft Skills

- Strong debugging, analytical, and problemsolving skills.
- Experience authoring technical reports and/or conference papers.
- Ability to work effectively in collaborative and remote team environments.
- Semiconductor process development or integration background preferred.
- Demonstrated independence, strong ownership, and execution capability.

- Excellent written and verbal communication with a strong teamwork mindset.

**Education Requirement & eligibility:**

- Pursuing (final-year candidates) a Master's or Ph.D. degree in Chemical Engineering, Applied Chemistry, Applied Physics, Applied Mathematics, Statistics, Materials Science, Electrical Engineering, Computer Science, or related fields.
- CGPA requirements = 7.0 CGPA & Above

**Location:**

Hyderabad

**Micron by Numbers:**

- \$37.38B FY'25 annual revenue
- 170 on the 2025 Fortune 500
- 60,000 patents granted and growing
- 30+ major cities worldwide with Micron offices
- 13 manufacturing sites\* and 13 customer labs
- 21 design center locations
- ~ 54,000 team members
- Official Website: <http://www.micron.com>