Job Notification Form, IIT Delhi

Company Overview

Name: Micron Technologies India Operations LLP

Website: www.micron.com

Company Type: Core (Technical)

Description: Micron is a world leader in innovative memory solutions that transform how the world uses information. For over 40 years, our company has been instrumental to the world's most significant technology advancements, delivering optimal memory and storage systems for a broad range of applications.

Job Details

Designation: MNand Firmware Engineer

Type: Core (Technical)

Place of Posting: Hyderabad

Job Details: About Us
As the leader in innovative memory solutions, Micron is helping the world make sense of data by delivering technology that is transforming how the world uses information. Through our global brands — Micron, Crucial and Ballistix — we offer the industry's broadest portfolio. We are the only company manufacturing today's major memory and storage technologies: DRAM, NAND, NOR and 3D XPoint™ memory. Our solutions are purpose built to leverage the value of data to unlock financial insights, accelerate scientific breakthroughs and enhance communication around the world.
Micron Technology's vision is to transform how the world uses information to enrich life and our commitment to people, innovation, tenacity, collaboration, and customer focus allows us to fulfill our mission to be a global leader in memory and storage solutions. This means conducting business with integrity, accountability, and professionalism while supporting our global community.
Associate/Firmware Engineer – MANAGED NAND
We are looking for an Embedded Engineer for Firmware development. You will be based in Bangalore location and participate in the development of the NAND products portfolio for managed NAND solutions of Mobile and Automotive customers.

Responsibilities include, but not limited to:
You will be part of a team implementing the FW for the latest managed NAND controllers with a responsibility for the delivery of high quality, high performance designs for Mobile and Automotive/Embedded customers.

You will work in partnership with the architectural and firmware leadership team defining the overall solution and then working to design, implement and then functionally test your components. You will be working to ensure the delivered firmware is to a very high quality, utilizing an Agile like approach of iterative development, test driven development and continuous integration. You will need to focus on ensuring you use the highest programming standards to produce highly readable and maintainable code, in addition to meeting the performance and reliability objectives.

You will work on projects from their earliest inception, through simulation and pre SoC tape out on FPGA and co-design environments, SoC bringup and support the design through customer qualification and ramp into production.

You will study and understand new features proposed in JEDEC and development prototype/proof of concept innovation solutions.

As a Firmware Engineer at Micron Technology, Inc., you will develop high-performance controller firmware for innovative volatile and non-volatile memory systems. In this position, you will assist in evaluating, designing, building, bench testing, debugging, and failure analyzing firmware for new high-performance memory controllers and managed NAND devices that will increase performance, while reducing power, latency and SoC (System on Chip) complexity for the target sectors. You can expect to work closely with system test engineers, system failure analysis engineers, firmware engineers, firmware test engineers, system hardware design engineers, product engineers, memory design engineers, firmware tools developers, and production engineers to solve multi-functional product development issues.
Responsibilities include, but not limited to:
Your responsibilities will include, but are not limited to, the following: Participate as a team member and work effectively inside and outside of the team. Show talent in coding skills, verification/validation, simulation, failure analysis, ASIC/FPGA/System bring-up, and the use of tools that support these activities. Validate customer requirements and perform failure analysis on FW related issues. Develop structured source code targeting the embedded environment associated with state of the art memory. Perform design verification using a variety of verification methods, including simulation and product testing. Focus on firmware quality in the system and the target application. Participate in SCRUM/Agile processes and distributed code reviews. Develop new test tools and methods. Follow specified processes/procedures/workflows. Analyze equipment or software; you will demonstrate the effective analysis of functional or performance issues with the firmware and hardware in test environments or target host systems.
Technical communications will be required between other teams and the firmware team (both verbal and written).
Minimum Qualifications:
1. Knowledge of firmware development, verification, system failure analysis, embedded systems design and real time embedded systems,
2. Strong analytical skills, including the ability to find creative solutions to hard problems.
3. Knowledge of software engineering principles and designing and developing firmware using assembly and C/C++ programming.
4. Knowledge in debugging skills in an embedded firmware application including:
o Using development tools and IDE's such as Slick Edit, SourcePoint and Realview.
o Problem re-creation and trapping
o Logging and diagnostics
o Digital hardware design and test equipment such as In-Circuit Emulators (ICE) and logic/bus analyzers
o analyzing complex firmware and hardware issues.
o identifying and optimizing performance of critical algorithms.
o ARM/ARC Microprocessors, with experience using on RTOS.
5. Knowledge of the Agile software development process life cycle and structured firmware development process and lifecycle.
6. Bachelor or Masters in Computer Engineering, Electrical and Electronics Engineering, or Computer Science.
Preferred Skills:
• Strong skills in communicating complex technical ideas/concepts.
• Ability to work in a dynamic environment and communicate effectively (written and verbal) across multiple locations and teams.
• Knowledge of scripting languages, programming tools and environment
• Knowledge in storage domain(advantage) - SSD, HDD, storage systems or a related technology
• Understanding of storage interfaces including ideally PCIe/NVMe, AHCI, SATA, SAS, UFS, eMMC is an advantage
• Bringing innovative ideas to improve our products, the quality of deliveries and development processes.

• Experience in creating/handling/manipulating Makefiles and build scripts for embedded firmware stack.
• Proficiency in C/C++ language and assembly skills.
• Knowledge of ARM/ARC processors architecture and debugging.
• Excellent communication skills.
• Outstanding analytical and problem-solving skills.
• NAND/Storage domain knowledge is advantage (SLC, MLC, TLC, QLC)
• Knowledge in bring up Kernel/RTOS, FW and developing solutions in embedded environment.

Joining By: 25 July 2022

Salary Details

CTC: 2,010,000 INR Per Annum

Gross: 1,486,400 INR Per Annum

CTC Breakup:

Bachelors	Masters
Base Pay 1430000	Base Pay 1540000
IPP*** 143000	IPP*** 154000
Discretionary Allowance 56000	Discretionary Allowance 56000
Provident Fund 85824	Provident Fund 92400
Relocation amount** 200000	Relocation amount** 200000
Joining Bonus* 150000	Joining Bonus* 150000

Selection Process

Resume Shortlist: Yes

Written Test: No

Online Test: Yes

Group Discussion: No

Medical Test: No

Personal Interview: Yes

No. of Rounds: 2

No. of Offers: 3

Minimum CGPA: 7

Eligibility

Recruiting PHDs:	No
Eligible Departments:	B.Tech in Computer Science & Engineering, B.Tech in Electrical Engineering, B.Tech in Electrical Engineering (Power and Automation), B.Tech and M.Tech in Computer Science & Engineering, M.Tech in Communications Engineering, M.Tech in Computer Science & Engineering, M.Tech in Computer Technology, M.Tech in Control & Automation, M.Tech in Instrument Technology, M.Tech in Integrated Electronics & Circuits, M.Tech in Power Electronics, Electrical Machines & Drives, M.Tech in Power Systems, M.Tech in Radio Frequency Design & Technology, M.Tech in Solid State Materials, M.Tech in VLSI Design Tools & Technology, M.S.(R) in VLSI Design Tools and Technology, M.S.(R) in Computer Science & Engineering, M.S.(R) in Electrical Engineering