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: Signal Integrity Engineer

Type: Core (Technical)

Place of Posting: Hyderabad

Job Details: Micron's Signal Integrity Research and Development (SI R&D) group supports all current and future product development, including DRAM, LPDRAM, NAND, NOR, 3DXP, DIMM modules and SSDs within the consumer, server, mobile, networking, graphics, automobile and embedded businesses. The SI R&D group works on analysis of end to end systems solutions including, but not limited to circuit level IO and Power Distribution, integrated circuit (IC) packages, printed circuit boards (PCBs) and measurements to ensure good Signal Integrity (SI) and power integrity (PI) performance for Micron's memory solutions. The group owns all steps of the signal and power integrity support process including die IO and package model generation, product performance analysis, system-level SI evaluation, measurement, correlation, and customer support. The group also supports future specification development within several industry standards groups including but not limited to JEDEC, ONFI, and IBIS. The group working environment is technically challenging, team-oriented, collaborative and customer-centric.

Within the larger SI R&D group, as an Engineer in the Signal Integrity team at Micron, you will be responsible for

Working on various aspects of SI and PI for high speed interfaces, including modeling (silicon, package and board level signal and power delivery network, as necessary for the project), time and frequency domain analysis for SI and PI electrical performance evaluation of Micron products and correlation to measurement for the various products. Ensuring that processes for various methodologies are executed effectively and accurately. Collaborating with TMs within the global SIRD group for development and continued optimization of methodologies for modeling and analysis as needed. Representing the SI R&D team in technical cross functional collaborative groups, and integrating with package design, silicon design, product engineering, and marketing departments to ensure overall product performance. Occasionally Supporting FAE, applications engineers with models for service to external customer as needed Occasionally Supporting path-finding activities through modeling support

Qualifications

Successful candidates for this position will have:

• Bachelors or Masters in Electrical/Electronics Engineering
• Required courses covering electromagnetic, transmission line and RF theory, analog design or similar fields of study or experience.
• Strong SI/PI/EMI theory and application, modeling, analysis, simulation
• Signal and Power Integrity Background
• Experience with, and intermediate working knowledge of E.M. field solvers (quasi-static and full wave), time and frequency domain simulation tools like Q3D, SIWAVE, HFSS, HSPICE, ADS, etc..
• Deep understanding of electromagnetic and transmission line theory, general I/O design, signal integrity, differential and single-ended interface technologies.
• Deep understanding of timing budgets and jitter analysis
• Expertise in Printed Circuit Board (PCB) layout or electrical package design techniques.
• Experience in design and analysis of high-speed single-ended or differential buses
• Familiarity with, and fundamental understanding of lab measurement equipment like Oscilloscopes, TDR, Vector Network Analyzer (VNA), etc.
• Familiarity with statistical analysis (DOE) and equivalent tools (example: JMP) is also beneficial
• Desirable Memory industry experience
• Ambitious candidate should enjoy leading and taking ownership of assigned projects, exhibit good written and verbal interpersonal skills, and have the ability to work well in a team with varied strengths.
Successful Candidates For This Position Will Be

• Pro-active – Candidate will be expected to identify gaps and opportunities and address them with minimal supervision.
• Collaborator – Candidate will be expected to work with various teams globally; and support both internal as well as external customers
• Communicator – Candidate should be able to clearly convey necessary details of complex issues and corresponding solutions in both written and verbal formats.
We recruit, hire, train, promote, discipline and provide other conditions of employment without regard to a person's race, color, religion, sex, age, national origin, disability, sexual orientation, gender identity and expression, pregnancy, veteran’s status, or other classifications protected under law. This includes providing reasonable accommodation for team members' disabilities or religious beliefs and practices.

Joining By: 25 July 2022

Salary Details

CTC: 2,200,000 INR Per Annum

Gross: 1,540,000 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:	1
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 VLSI Design Tools & Technology, M.S.(R) in Computer Science & Engineering, M.S.(R) in Electrical Engineering, M.S.(R) in Sensors, Instrumentation and Cyber-physical System Engineering, M.S.(R) in VLSI Design Tools and Technology