Validation Software Engineer - DDR5 Memory Systems

Apply Now

Company: Montage Technology, Inc

Location: Johns Creek

Category: other-general

About Us:Montage Technologies has opened a new U.S. location in the Johns Creek, GA area. We are a leading semiconductor company specializing in enterprise-class memory products. There will be many hands-on learning experiences with significant program ownership and career growth.Founded in 2004, Montage Technology is a leading IC design company dedicated to providing high-performance, low-power IC solutions for cloud computing and data center markets. Montage Technology provides industry leading DDR2 to DDR5 memory interface products for the demanding cloud computing and data center markets. Our robust product portfolio includes the critical components required by the memory modules, such as Registering Clock Driver (RCD), Data Buffer (DB), SPD EEPROM with Hub (SPD Hub), Temperature Sensor (TS), and Power Management IC (PMIC). Compliant with JEDEC specifications, these products are designed for a variety of memory modules such as RDIMM, LRDIMM, NVDIMM, UDIMM, SODIMM, MRDIMM, etc., to enable high-speed, large-capacity, high-reliability and low-power memory solutions for high-performance computing. Montage is quickly growing to become the leader in these industries, with revenue having grown 171% in the last 5 years!As a Validation Software Engineer specializing in DDR4 and DDR5 memory systems at Montage Technology, you will be a key contributor to ensuring the reliability, performance, and compatibility of our advanced memory components and technologies. You will work closely with cross-functional teams to develop and execute validation plans, create firmware solutions, and implement margining algorithms to ensure our memory systems meet the highest quality standards.Key Responsibilities:Validation: Develop and execute validation plans and test cases for DDR4

and DDR5 memory systems, ensuring compliance with industry standards. Validate memory component functionality, compatibility, and performance.Interconnect: Evaluate memory system equalization techniques and transmission line characteristics to optimize signal integrity and data transfer rates.Firmware and BIOS Development: Create firmware solutions to enhance memory system capabilities and compatibility.Margining Algorithms: Develop and implement margining algorithms to ensure robust operation under various operating conditions.Scripting and Programming: Utilize Python and C++ for test automation, firmware development, and data analysis to streamline validation processes.Test Development: Collaborate with design and architecture teams to design and execute innovative tests that stress memory systems to their limits.Data Analysis: Analyze validation results to identify and report issues, anomalies, and potential improvements in memory system performance.Cross-functional collaboration: Collaborate with hardware and software teams to address and resolve validation and performance issues, ensuring product readiness for market release.Qualifications:Bachelor's or Master's degree in electrical engineering or computer engineeringStrong experience in DDR4 and DDR5 memory system validation.5+ years of relevant work experience.Experience with signal integrity and equalization techniques.Knowledge of DDR Training algorithmsProficiency in Python and C++ programming for test automation, firmware development, and data analysis.Experience with memory controllers, firmware, and BIOS development is a strong plus.Solid understanding of memory system architecture and industry standards.Strong problem-solving skills and attention to detail.Excellent communication and teamwork skills.Experience in testing and validation methodologies.Experience mentoring junior engineers.Montage offers a competitive compensation package including base salary, bonus, equity, matching 401(k), comprehensive medical and dental benefits, and a time-off program.Montage is proud to be an Equal Employment Opportunity and Affirmative Action employer. We do not discriminate based on race, religion, color, national origin, sex (including pregnancy, childbirth, or related medical conditions), sexual orientation, gender identity, gender expression, age, status as a protected veteran, status as an individual with a disability, genetic information, or other applicable legally protected characteristics.Montage is committed to providing reasonable accommodations for qualified individuals with disabilities and disabled veterans during our job application procedures. If you require assistance or accommodation due to a disability, please feel free to inform us in your application.Montage does not accept unsolicited resumes from headhunters, recruitment agencies or fee-based recruitment services.For

more information about Montage, please visit our website at montage-tech.com.

Apply Now

Cross References and Citations:

1. Validation Software Engineer - DDR5 Memory Systems Legaljobs Jobs Johns Creek Legaljobs ↗

2. Validation Software Engineer - DDR5 Memory Systems ConsultantjobsJobs Johns Creek Consultantjobs↗

3. Validation Software Engineer - DDR5 Memory Systems UkjobopportunitiesJobs Johns Creek Ukjobopportunities↗

4. Validation Software Engineer - DDR5 Memory Systems BeauticianjobsJobs Johns Creek Beauticianjobs↗

5. Validation Software Engineer - DDR5 Memory Systems Ecologyjobs Jobs Johns Creek Ecologyjobs↗

6. Validation Software Engineer - DDR5 Memory Systems Physiotherapistjobs Jobs Johns Creek Physiotherapistjobs ↗

7. Validation Software Engineer - DDR5 Memory Systems UnitedarabemiratesjobsJobs Johns Creek Unitedarabemiratesjobs↗

8. Validation Software Engineer - DDR5 Memory Systems Onlinejobsearch Jobs Johns Creek Onlinejobsearch ↗

9. Validation Software Engineer - DDR5 Memory Systems LuxembourgjobsJobs Johns Creek Luxembourgjobs↗

10. Validation Software Engineer - DDR5 Memory SystemsSeattlejobsearch Jobs Johns Creek Seattlejobsearch↗

11. Validation Software Engineer - DDR5 Memory SystemsLawyerjobs Jobs Johns Creek Lawyerjobs ↗

12. Validation Software Engineer - DDR5 Memory SystemsJobspakistan Jobs Johns Creek Jobspakistan ↗

13. Validation Software Engineer - DDR5 Memory SystemsPanamajobs Jobs Johns Creek

Panamajobs ↗

14. Validation Software Engineer - DDR5 Memory Systems Workfromhomejobs Jobs Johns Creek Workfromhomejobs ↗

15. Validation Software Engineer - DDR5 Memory Systems Baghdadjobs Jobs Johns Creek Baghdadjobs ↗

16. Validation Software Engineer - DDR5 Memory Systems Flutterjobsnearme Jobs Johns Creek Flutterjobsnearme ↗

17. Validation Software Engineer - DDR5 Memory Systems Hungaryjobs Jobs Johns Creek Hungaryjobs ↗

18. Validation Software Engineer - DDR5 Memory Systems Riyadhjobs Jobs Johns Creek Riyadhjobs ↗

19. Validation software engineer - ddr5 memory systems Jobs Johns creek ↗

20. AMP Version of Validation software engineer - ddr5 memory systems ↗

21. Validation software engineer - ddr5 memory systems Johns creek Jobs ↗

22. Validation software engineer - ddr5 memory systems Jobs Johns creek ↗

23. Validation software engineer - ddr5 memory systems Job Search ↗

24. Validation software engineer - ddr5 memory systems Search ↗

25. Validation software engineer - ddr5 memory systems Find Jobs ↗