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Sr. Product Development Engineer

Locations: Austin, Texas

Categories: Engineering

Req ID: 23918

Hiring Target Min: USD \$91,920.00/Yr.

Hiring Target Max: USD \$137,880.00/Yr.



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Job Description

WHAT YOU DO AT AMD CHANGES EVERYTHING

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solve the world's most important challenges. We strive for execution excellence while being direct,

humble, collaborative, and inclusive of diverse perspectives. This is who we are at our best. One Company. One Team.

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ATE Product Development Engineer

The Role:

Product Engineering is a time-to-market driven team responsible for enabling the availability of microprocessors to our customers. Pre-silicon responsibilities for the Test Engineer include understanding product features, developing test plans, test creation, pattern debug, characterization, data analysis, highlighting test coverage holes, and developing software and hardware infrastructure to execute those plans. This requires interaction with Design and Platform Engineering and allows for the opportunity to provide test enhancement feedback for future designs. Post-silicon responsibilities include microprocessor debug & analysis and the execution of characterization plans. This may include silicon performance issues, yield issues, manufacturing processes, and device marginalities.

The Person:

The Test Engineer will work closely with Design and Platform Engineering to root cause issues that result from the debug, characterization and margin analysis. The Test Engineer will also drive part failure analysis leading to test flow and/or yield improvements. ATE experience required. Solid coding skills preferred.

Key Responsibilities:

- Responsible for creating ATE test methodologies and writing/debugging ATE test programs
- Engage with SOC, IP, DFT and Product Engineering teams on capturing and documenting test characterization and pattern requirements
- Post Silicon Bring up and debug of Test patterns with SOC DV teams leading to optimization for HVM enablement.
- Characterization and debug of new silicon designs and process technologies across Voltage and Temp.
- Optimization of test flows for increased quality and cost improvement.
- Look for opportunities to create innovative solutions to improve efficiency and quality of our test program development
- Analysis of part failures leading to test improvement.
- Perform Test program integration, validation and release
- Transfer NPI knowledge to Sustaining team

- Experience with ATE probe and FT HW design and debug

Preferred Experience:

- Semiconductor ATE Test Engineering experience
- Strong communication skills including data presentation.
- Experience with scripting languages like Perl, Python, Ruby
- Strong ATE test development with Advantest 93k and/or T2K platform
- Unix and Windows proficiency.
- Familiarity with Verilog simulation tools and JTAG protocol is a plus.
- Modern computer architecture knowledge
- Understanding of semiconductor device physics and speed path analysis
- Understanding of system-level test techniques is a plus

Academic Credentials:

Candidates will have a BS/MS in Computer Engineering or Electrical Engineering plus directly related experience

Location:

Austin, TX

#LI-TW2

At AMD, your base pay is one part of your total rewards package. Your base pay will depend on where your skills, qualifications, experience, and location fit into the hiring range for the position. You may be eligible for incentives based upon your role such as either an annual bonus or sales incentive. Many AMD employees have the opportunity to own shares of AMD stock, as well as a discount when purchasing AMD stock if voluntarily participating in AMD's Employee Stock Purchase Plan. You'll also be eligible for competitive benefits described in more detail here (<https://amd.jibeapply.com/benefits>).

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