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Pre-Silicon Validation Engineer

Intel Corporation · Austin, TX (On-site) · 3 days ago · 110 applicants



Full-time · Entry level



10,001+ employees · Semiconductor Manufacturing



118 connections · 396 company alumni · 409 school alumni



Skills: Open Verification Methodology, Employee Benefits, +8 more

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About the job

Job Description

The world is transforming - and so is Intel! Here at Intel, we believe the world needs technology that can enrich the lives of every person on Earth. We believe that developing these technologies takes a team of exceptionally talented individuals who work together to visualize, innovate, and make the future of computing possible. If you are excited about advanced development of breakthrough technologies for future-generation CPU cores, we invite you to join us to do something wonderful!

As a member of a CPU Core development team of pre-silicon verification engineers, you will verify new and existing features for Intel's next generation CPU IP, resulting in a bug-free final design. You will be responsible for exhaustively validating the RTL implementation of new architecture and microarchitecture capabilities, using a combination of unit- and top-level test environments, as well as formal verification.

Responsibilities May Include

- Collaborate with architect hardware engineers and microcode engineers to understand the new features being implemented
- Read and interpret technical specs
- Create high quality technical documentation such as test plan strategy documents and coverage plans
- Develop test generators and other validation content to be reusable in pre-silicon and post-silicon
- Debug and root-cause failing verification tests
- Fix all identified failures in the verification model
- Investigate new techniques to accelerate validation of CPU hardware

Qualifications

Masters or PhD degree in Electrical or Computer Engineering with 6+ months of experience in:

- CPU or ASIC verification
- Programming in C for modeling and assembly language programming
- Experience with Assertion and Functional Coverage
- Experience with debugging RTL code using simulation tools
- Experience with Verilog System Verilog
- Exposure with OVM UVM

Preferred Experience

- Projects or internship in CPU or ASIC verification and functional modeling
- Experience with scripting languages like Python/Perl is a plus
- Machine learning

Relevant courses: Computer Architecture; Digital Design Verification; Logic Design; Programming Languages; Data Structures

Inside this Business Group

The Advanced Architecture Development Group (AADG) is a CPU Core development team in Portland, Oregon. If you are excited about advanced development of breakthrough technologies for future-generation CPU cores, please join us. We believe that developing these technologies takes a team of exceptionally talented

individuals who work together to visualize, innovate, and make the future of computing possible. Join us to do something wonderful!

Other Locations

US,Hillsboro

Covid Statement

Intel strongly encourages employees to be vaccinated against COVID-19. Intel aligns to federal, state, and local laws and as a contractor to the U.S. Government is subject to government mandates that may be issued. Intel policies for COVID-19 including guidance about testing and vaccination are subject to change over time.

Posting Statement

All qualified applicants will receive consideration for employment without regard to race, color, religion, religious creed, sex, national origin, ancestry, age, physical or mental disability, medical condition, genetic information, military and veteran status, marital status, pregnancy, gender, gender expression, gender identity, sexual orientation, or any other characteristic protected by local law, regulation, or ordinance.

Benefits

We offer a total compensation package that ranks among the best in the industry. It consists of competitive pay, stock, bonuses, as well as, benefit programs which include health, retirement, and vacation. Find more information about all of our Amazing Benefits here: <https://www.intel.com/content/www/us/en/jobs/benefits.html>

Working Model

This role will require an on-site presence.

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See how you compare to other applicants

Top applicants

25%

You're in the **top 25% of 110 applicants** based on your LinkedIn profile
110 Applicants -
3 Applicants in the past day

To maximize your chances of getting this job, be sure to update your profile with the most relevant skills

Most common applicant skills

You have **6 out of the 10 most common skills** among all other applicants

✓ Python (Programming Language)

✓ C++

✓ Very-Large-Scale Integration (VLSI)

✓ Verilog

✓ Cadence Virtuoso

✓ C (Programming Language)

✓ MATLAB

✓ Computer Architecture

✓ SystemVerilog

✓ Universal Verification Methodology (UVM)

Applicant seniority level

40 Entry level applicants

12 Senior level applicants

Applicant education level

76% have a Master's Degree (Similar to you)

14% have a Bachelor's Degree

5% have a Doctor of Philosophy

5% have other degrees

Applicants are in these locations

10-15 applicants ✓

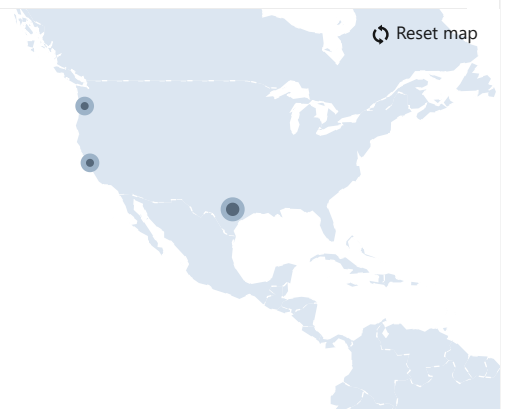
Austin, Texas Metropolitan Area

5-10 applicants

San Francisco Bay Area

5-10 applicants

Portland, Oregon Metropolitan Area



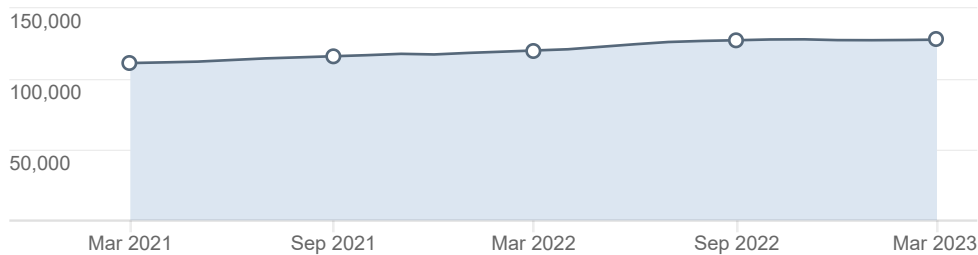
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The latest hiring trends.

127,845

Total employees



▲ 15%
Company-wide
2 year growth

▲ 9%
Quality Assurance
2 year growth

⌚ Median employee tenure · 5.9 years

Intel Corporation hires candidates from some of these companies and schools



Intel Corporation hired 396 people from Western Digital. [See all](#)



Intel Corporation hired 409 people from Ira A. Fulton Schools of Engineering at Arizona State University. [See all](#)

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About the company



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Intel's mission is to shape the future of technology to help create a better future for the entire world. By pushing forward in fields like AI, analytics and cloud-to-edge technology, Intel's work is at the heart of countless innovations. From major breakthroughs like self-driving cars and rebuilding the coral reefs, to things that make everyday life better like blockbuster effects and improved shopping experiences — they're all powered by Intel technology. With a career at Intel, you have ...[show more](#)

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