

**POSITION TITLE:** Research Scientist

**POSITION DUTIES:** Study semiconductor device physics and manufacturing technologies, and develop simulation software. Analyze data and images collected from the fab and develop novel methods in the software to improve manufacturing processes and yield. Apply techniques in statistics analysis and Big Data to discover valuable information from the manufacturing processes. Design and prototype new data analysis software to improve IC manufacturing processes and validate these algorithms and software against real process data.

**SPECIAL REQUIREMENTS:** Have strong background in mathematics and physics, have strong analytical skills, problem solving skills and critical thinking skills; Proficient in C++, python, object-oriented programming and software development. Familiar with signal/imaging processing, scientific computation; Have strong statistical analysis skills; Knowledge of computational lithography, condensed matter and semiconductor physics; Self-motivated and a good team player with excellent written and oral communication skills.

**MINIMUM JOB REQUIREMENTS:** Master's degree in EE, Physics or Applied Math and 12 months' experiences in related field

**RATE OF PAY:** \$125,134.00/Year.

**LOCATION OF EMPLOYMENT:** Xtal, Inc.  
97 E. Brokaw Road, Suite 330  
San Jose, CA 95112

**CONTACT:** If interested, please contact HR, at (408) 642-5328, 97 E. Brokaw Road, Suite 330, San Jose, CA 95112.