**Research Scientist**

**Business Unit: FaST**

**Business Unit Description**

The Film and Scatterometry Technology (FaST) Division provides industry leading metrology solutions for worldwide semiconductor IC manufacturers.  The FaST Division portfolio of metrology products includes hardware and software solutions for optical film thickness, optical critical dimension (CD), composition, and resistivity measurement systems.  These products are essential for the IC manufacturers as they provide critical metrology capabilities for the development and implementation of their advanced IC processes.  The FaST division is committed to support our customers to achieve performance entitlement of our solution and we effectively partner with our customers from their early research and development phase to the high volume in-line manufacturing implementation specific for their process needs.  The division consists of a global team located in US, Israel, China, and India.

**Responsibilities**

The research scientist will join the Advanced Technology group of the Films and Scatterometry division. He/she will use and develop advanced simulation tools for analyzing performance of new metrology components and systems, including simulation of plasma sources, interaction of light with new customer logic and memory structures, etc. Knowledge of advanced physics simulations in COMSOL, Matlab, and similar packages is required. Understanding of semiconductor device fabrication and physics is a plus.

**Preferred Qualifications**

* Ph.D. in physics or engineering with strong simulations background in plasma physics, device physics, or electromagnetic simulations
* Understanding or background in experimental work (optics lab or similar) would be a plus.

Job ID: [114204](https://ktcareers.kla-tencor.com/psp/ps/APPLICANT/PSRPTS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&JobOpeningId=114204&PostingSeq=1)