NVM (non-Volatile memory) Consultant

- Position Location:

  - Shanghai, China
  - Relocation for this position is not available

Job Description:

Work on a team consisting of PDF and client engineers to characterize and solve the performance and yield problems of advanced NVM process

The responsibilities include:

- Identification, diagnosis, and correction of characteristics of the NVM process.
- Design of experiments for NVM process module improvements.
- Statistical analysis of manufacturing data and simulation.

- Projects are focused on leading edge NVM semiconductor products and processes.
- The work is focused on specific problems and must be performed in a timely and efficient manner.
- The position requires continuous interaction with clients at both the engineering and management level.
- Frequent business travel is required

Required Skills and Experiences:

- Working knowledge of integration and operation of 3D-NAND Flash
- Experience with embedded NVM, eFlash, Emerging NVM (MRAM, ReRAM, PRAM, etc) and Cross-point memories is a plus
- Experience in process characterization – metrology, inspection, electrical characterization, including test structure definition/design
- Analysis experience – Yield analysis, Scribe line structures, defectivity
- Experience using statistical data analysis techniques (t-test, linear regression, ANOVA) and statistical analysis software tools (Spotfire, SAS, RS1, JMP, Matlab).
- Experience using design of experiment (DOE).
- Excellent communication skills, presentation skills, project planning
- Highly professional and self-managed.
- Proficient reading writing and speaking English and Mandarin languages

Job Desirables:

- Advanced process integration experience in Logic and /or Memory technologies and their issues.

- Sound understanding of product testing and analysis methods (Flash/SRAM/DRAM memory test, logic function test, frequency/speed test, BIST, etc.).
- Sound understanding of failure analysis techniques and good judgment concerning best application of such techniques.
- Experience with TCAD software, including process and device simulation.
- Experience with Process characterization, test structures definition/ specification/design
- Experience with PC and UNIX and the ability to write small scripts.
- IDM, Foundry or Fabless company experience.
- Knowledge of specific product categories such as FLASH, DRAM & SOC.

Special working conditions:

1. Requires extended on-site presence (>6 month) at client sites

2. Seeking individual to work in Asia, may be based in China or Taiwan.