Post Doc Position

Oxford Instruments Plasma Technology, a division of Oxford Instruments plc, is seeking a Post Doc Research Scientist who will be based in Berkley, California to develop and enhance existing products with specifics to Nanoscale etching, and chamber diagnostics.

Responsibilities in this role include:

1. Demonstrate and enhance process performance of tools installed at our customer site specific to Nanoscale etching.
   a. Improve cryo features and report findings in a white paper
   b. Develop MEMS processes for Nanoscale etching with special development of sidewall roughness, and high aspect ratio features in sub 10nm features
2. Improve/develop Cryo process for deep processing.
3. Collaborate with our customer to develop ALD processes for Nanoscale and MEMS applications.
4. Collaborate with our customers to investigate methods for obtaining accurate RF readings in chamber.
5. Continue to develop Optical diagnostics and real time control of systems.
6. Occasionally run customer demo samples that require Nanoscale features, or Cryo etches.
7. Ensure all work is carried out in accordance with the Company’s Health and Safety and ISO9001 Quality procedures. Demonstrate a good awareness of the demands associated with handling hazardous materials and manage the risks appropriately.

To be successful in this role you will need to have Thin film measuring skills (e.g. SEMS) and at least one of: General deposition or etch experience, and a strong background in Plasma Physics.

The ideal candidate will be self-starting, diligent and enthusiastic and will have a professional approach to working independently and managing your own time. You will be highly innovative and good lateral thinking skills for identifying opportunities for technology development applications. Good diagnostic skills and problem solving abilities are essential. Positive and enthusiastic attitude to technical challenges, and flexibility to cope effectively with changes to specifications or priorities. You will be a team player who makes the best use of the contributions that can be made by others, and has the ability to work constructively with others. You will have excellent written and oral communication and be able to articulate, present and report on technical or complex issues clearly and succinctly.

Oxford Instruments America, Inc., located in Concord, Massachusetts, is a subsidiary of the UK based Oxford Instruments plc. Oxford Instruments is a high technology tool and systems business. It has a broad range of capabilities, which provide the tools, processes, and solutions needed to advance fundamental nanoscience research and its transfer into commercial nanotechnology applications. With a unique set of technologies to enable the manipulation and observation of matter at the smallest scales, Oxford Instruments offers solutions for the fabrication and characterization of nanoscale materials, structures and devices, and environments in which to perform fundamental nanoscience. The first technology business to be spun out from Oxford University over forty years ago, Oxford Instruments today employs over 1,300 people, operating globally, and is listed on the London Stock Exchange (OXIG). Visit our website at www.oxford-instruments.com.

We offer a comprehensive compensation and benefits package including vacation pay, medical, dental and vision coverage, life insurance, flexible spending accounts as well as a matching 401k plan.

Please submit your resume with salary history to: concord.hr@oxinst.com.