

Computational Plasma Physicist

Applied Materials, Inc.

Requires in-depth knowledge and experience in computational plasma physics, computational electromagnetics (EM), or related areas. Additional knowledge of plasma materials processing and computational methods is valuable but not essential. Uses best practices and technical knowledge to improve design and understanding of semiconductor processing equipment.

Key Responsibilities

1. Perform plasma and/or electromagnetics (EM) modeling of plasma chambers to provide better understanding of plasma/EM behavior during concept & feasibility, design and development of the semiconductor processing equipment.
2. Develop, modify and test internal plasma, EM, and related codes as needed.
3. Perform engineering analysis. Recommend design modifications to improve Plasma/EM behavior to address technical/business needs.
4. Apply internal and/or external codes to address plasma/EM related problems as needed.
5. Present modeling results and recommendations to product development team.
6. Provide technical expertise in plasma physics and/or EM as valuable resource.

Problem Solving

- Solves complex plasma physics and/or EM problems; judiciously interprets results; provides recommendation based on analysis.

Interpersonal Skills

- Explains difficult information; works in a team environment.

Education: Masters or PhD

0 – 3 Years of relevant experience

Contact:

Jason Kenney

Jason_Kenney@amat.com

(408) 306-5783