



Computational Plasma Physicist/Chemist

Applied Materials, Inc.

Requires in-depth knowledge and experience in computational plasma physics, plasma chemistry, 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 products for semiconductor manufacturing. Solves complex problems. Works with minimal guidance. Acts as a resource for colleagues with less experience.

Key Responsibilities

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

Leadership

- Acts as a plasma physics resource for colleagues with less experience.

Problem Solving

- Solves complex plasma 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:

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