



plasma process group

1/15/26

Electronics Engineer

Job Description:

The mission of the Electronics Engineer will be to design, fabricate and test power supplies and subsystems as related to the Plasma Process Group product line. They will be responsible for the sustained engineering and manufacturing of the power supplies that drive ion beam sources. They will manage part cross-referencing for existing products. They will design and test new boards when parts become obsolete or have end of life approaching. They will assist with production staff by helping maintain and organize the calibration and testing equipment. Day-to-day responsibilities includes maintaining visibility on part availability and working on new designs. They will wear many hats.

The Electronics Engineer will report to and work closely with the General Manager. Specific projects will be assigned by the Chief Technical Officer.

Specific Job Duties:

- 1) Provide engineering support to production.
- 2) Identify part cross referencing, part availability, and part obsolescence.
- 3) Design, fabricate and test replacement boards for part obsolescence (as per the road map).
- 4) Program existing ICs and replacement ICs.
- 5) Assist production with fabrication and testing of new power supplies.
- 6) Assist production with the repair and upgrades of customer power supplies.
- 7) Maintain the calibration and programming facilities in the electronics department.
- 8) Work on next generation and existing product improvements as per the master plan (road map).
- 9) Help with part and assembly inspection from outside shop services and vendors.
- 10) Help identify production quality issues and assist with failure analysis of power supplies.
- 11) Assist with manufacturing documentation improvement associated with fabrication such as work instructions, drawings, bill of material, etc.
- 12) Maintain a clean work environment.
- 13) Follow all Shop Safety procedures and participate in training and periodic inspections.
- 14) Assist in problem solving, training and mentoring of others.
- 15) Other duties as required.

Growth Opportunities:

- 1) Learn power supply operation and controls for ion beam source and RF discharges.
- 2) Design next generation and sustained product replacement electronics.

Educational and Relevant work experience:

Two (2) year degree or more of electronic design experience.
Experience with switch mode power supplies and RF amplifiers.
Familiar with Altium (or equivalent) circuit design software. Programming ICs using C++ or equivalent.
Familiar with and safety conscious working with DC and RF high voltage and current.
Like to work with their hands and appreciate making precision hardware. Able to lift heavy equipment.

Job Pay and Perks:

- 1) Annual salary based upon Applicant's experience with range of \$80k to \$100k.
- 2) Four (4) day work weeks.
- 3) Two (2) weeks of vacation as per Company Policy Manual
- 4) Health insurance benefit with Kaiser Permanente as described in the Company Policy Manual.