



Electrical Design Engineer

Job Information

Hiring Company

[Advanced Energy Japan K.K.](#)

Job ID

1583772

Division

Plasma Power Products Group

Industry

Electronics, Semiconductor

Company Type

International Company

Job Type

Permanent Full-time

Location

Miyagi Prefecture

Salary

4 million yen ~ 6.5 million yen

Refreshed

May 26th, 2026 01:00

General Requirements

Minimum Experience Level

Over 3 years

Career Level

Mid Career

Minimum English Level

Daily Conversation

Minimum Japanese Level

Fluent

Minimum Education Level

Bachelor's Degree

Visa Status

Permission to work in Japan required

Job Description

«Job Description & Position Highlights»

- A leadership role in the electrical design and development of RF power supplies and power electronics products
- A role where you can leverage your expertise by providing technical guidance to the team and contributing to system verification and performance improvement
- An environment where you can hone your project management and problem-solving skills through collaboration with international teams and customers
- Work that allows you to deepen your advanced electrical design skills by utilizing state-of-the-art measurement equipment and design tools

【Job Responsibilities】

Provides electrical design & RF support for product development and/or sustaining efforts. Provides direction to the team

regarding electrical circuit and simulation challenges. Acts as a technical expert for all aspects of the electrical power engineering, design, and documentation involved.

This position will report to the head of engineering in Korea.

This position will participate in electrical design for RF matching network and Power generator products.

< RESPONSIBILITIES >

*Essential

- Participate in electrical development for RF match and power generators.
- Improves the quality and performance of the products.
- Technical support for the customer.
- Other duties as assigned.

< WORK ENVIRONMENT >

- To work within standard electronic laboratory environment and office
- To communicate and work with the customers for developments

< REPORTS TO >

Engineering Sr Manager

< RECEIVES ADDITIONAL DIRECTION FROM >

Senior Engineer or Above

【 Employment Type 】

Permanent employee

【 Salary 】

4.0 to 6.2 million yen

【 Work Location 】

Sendai Office

Required Skills

【 QUALIFICATIONS 】

***Required:**

- 5+ years of related experience and above in Power electronics and RF power delivery.
- Hardware design (Schematic and PCB) possible to meet customer requirements.
- Experienced in various system verification and performance improvement.
- Ability to understand, Power electronics and the RF power delivery system.
- Ability to understand, hardware and software based on CPU control systems.
- Ability to understand, develop, and support CPU-based control systems, addressing both hardware design considerations and software implementation, debugging, and system-level behavior.
- Ability to Understand, how to measure and control the analog signal
- Ability to understand, function and behavior of electronic components and modules.
- Ability to develop RF and Digital circuits into PCB and products.
- Ability to simulate electronic circuit or component through PSpice, ADS or HFSS.
- Ability to handle software tools such as MATLAB and LabVIEW
- Ability to analyze and resolve electrical problems.
- Ability to guide and lead projects, evaluate next steps and targeted goals
- General verbal English and communication skill with international teams
- Good at process improvement and quality control.
- Bachelor's degree in engineering or equivalent specific experience
- Language Skills: Native-level or fluent Japanese communication skills are required. Basic to intermediate
- English comprehension is preferred for reviewing technical materials and collaborating with global teams.

***Desired:**

- Master's degree in engineering or similar.
- Focus in RF Design or RF equivalent
- Familiar with lab equipment such as oscilloscope, spectrum analyzer, network analyzer, etc.
- Familiar with programming languages such as C/C++, MATLAB, Python or LabVIEW.
- Familiar with simulation tools such as ADS, HFSS, PSIM, PSpice, Altium or ORCAD.

【 REQUIREMENTS 】

- Integrity to perform work individually and with cross-functional teams
- Thorough work ethic and full dedication to work
- Good technical skills and ability to learn fast
- Bachelors degree in Electronic or Electrical Engineering or equivalent specific experience
- PCB Software, Altium or Cadence, experience
- Ability to work independently as needed as well in a multi-national, collaborative and highly innovative team environment.
- Comfortable with: Standard laboratory instrumentation, including but not limited to oscilloscopes, VNAs, RF VI probes, multimeters, leak detectors, and thermal sensors
- Reading schematics, PIDs, and wiring diagrams

