

NJ1367842

Power Electronics & Control Engineer

Inductotherm Corp

Rancocas, NJ, 08073

Public transit available.

Duties and Responsibilities

Power Electronics & Control Engineer

Throughout Inductotherm's history, we have pioneered a number of "firsts" in our industry. We continue to grow in size and scope, creating and refining technologies that were scarcely theoretical, let alone practical, just a short time ago. It's inspiring to see how far we've come. We believe that some of our greatest moments are yet to be developed as we continue to make advancements.

Candidate will conduct research and development of new HF inverters, including power circuit, control algorithms and protection. Will be required to test and troubleshoot control PCB and power circuits.

Education:

-BSME or BSECE or equivalent work experience.

Essential Requirements:

-Mathematics: Calculus and differential equations.

-Physics: Mechanics, electricity and electromagnetics.

-Mechanical Disciplines: Machine design and heat transfer.

-Electrical disciplines: Electrical circuit analysis, analog and digital control systems design:

Micro-controller, FPGA, pulse width control, frequency control, phase lock loop, PCB design, circuit simulation and PSpice.

o Power circuits: high frequency inverter, current source inverter, voltage source inverter, rectifier, AC switch, resonant tank circuit, series resonance, parallel resonance, power supplies, passive filters, active filters, transformers, capacitors and inductors

o Semiconductors devices: Diodes, SCRs and IGBTs.

-Computer skills: Microsoft Word, Excel, Power Point, Visio, Word Perfect, OrCAD Capture, PSpice, Layout, Mathcad, C, C++, AutoCad and Solid Works.

-Conduct research and develop new HF inverters, including power circuit, control algorithms and protection.

-Test and troubleshoot control PCB and power circuits.

-Familiar with test and measuring equipment: meter, scope, probes, etc.

-Work independently and exercise good judgment with no direct supervision.

-Able to travel worldwide.

-Will handle miscellaneous duties as assigned.

Essential Physical Requirements:

-The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

-Read and understand information and ideas presented in writing.

- Listen to and understand information presented through spoken words and sentences.
- Communicate information and ideas, written and verbally so others will understand.
- Able to work any shift.
- Hold a valid driver's license and able to drive an automobile.
- Able to travel on short notice by public transportation including (i.e.: aircrafts, trains, bus, cars) domestically and internationally.

Non-Essential Physical Requirements:

- Must disclose any surgical implants, pins, braces or other devices that could be affected by induction fields.
- Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Condition of Employment:

- Must be able to satisfactorily complete the Inductotherm Corp. hiring process requirements which includes a comprehensive assessment, drug testing, and a background check.

Equal Opportunity Employer • Minorities/Female/Disabled/Veteran
Non-smoking Environment • An E-Verify Employers

Nature of Work

Duration: Full Time, Regular

Normal Work Days: Monday, Tuesday, Wednesday, Thursday, Friday

Working Hour per Week: 40 hour(s)

Normal Work Shifts: First (Day)

Post is open till: 30th May, 2018

Number of Job Openings: 1

Education

Applicants should have a Bachelor's Degree

Experience

Applicants should have experience of 2 year(s) .

Minimum Age

Applicants should have age 18 yrs. (Child Labor Laws)

License

Applicants should have following driver's license: Class D/Regular:

Benefits

Leave: Paid holidays, Vacation/paid time off, Medical

Retirement: 401K, Profit sharing

Insurance: Dental, Health, Vision

About Inductotherm Corp

Inductotherm Corp is the worldwide leader in induction technology and is headquartered in Rancocas, New Jersey. We design and manufacture the most advanced melting, heating, holding and pouring systems for virtually all metal and material processing. At Inductotherm Corp., your growth potential is unlimited. We offer a competitive salary, excellent benefits and a Profit Sharing Plan.