

Tetra Corporation

Job Opening

Pulsed Power Engineer

Location: Albuquerque NM

Job Level: Mid-level to advanced

Description

Tetra Corporation is seeking an experienced pulsed power engineer to be part of a research team. The position includes a range of roles and responsibilities ranging from paper studies, pulsed power system design, experimental design and execution, data acquisition and reduction and presentations of data and findings. Being able to seamlessly transition from the desk to the lab is important as building proof-of-concepts systems, experimentally verifying designs, and executing the tests are expected.

The engineer does interface with 1-2 other electrical engineers, one mechanical engineer and a small staff of technicians.

Minimum Job Requirements:

- MS in pulsed power engineering
- Thorough knowledge of and experience in pulsed-power design, implementation, operation, troubleshooting and maintenance
- Demonstrated knowledge of safety issues or potential hazards relating to pulsed power systems and devices and the use of interlocks and design features to mitigate risks and hazards.
- Knowledge of and experience in fundamentals of electrical engineering including circuit design, modelling and circuit simulation tools such as SPICE
- Knowledge of and experience with engineering/scientific computational tools such as MATLAB or IDL
- Excellent interpersonal, verbal and written communication skills and demonstrated ability to interact with all levels of personnel and customers; strong teaming skills
- Demonstrated experience in effective decision-making and creative problem solving
- Demonstrated experience in diagnostics, data acquisition and analysis Use of standard laboratory equipment: DMM, Oscilloscopes, power supplies, Current and voltage probes, etc

Qualifications desired:

- Experience in leading, mentoring, and training technical staff
- Demonstrated experience successfully leading technical projects or teams

- 5+ years of experience in pulsed power, preferably in an R&D environment
- an emphasis on components, including switches, and compact pulsed power systems.

Essential Job Functions (can perform with or without reasonable accommodation)

Climbing stairs, walking, lifting 20-30 pounds, operation of motor vehicles, work near electrical power supplies, Domestic/Foreign travel.