Sandia National Laboratories – Pulsed Power S&T Research

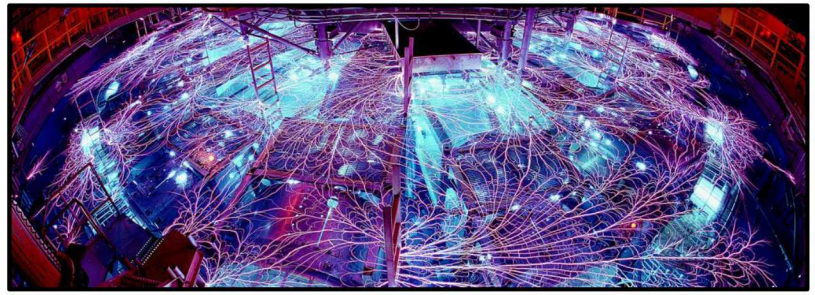
SAND2019-11859PE

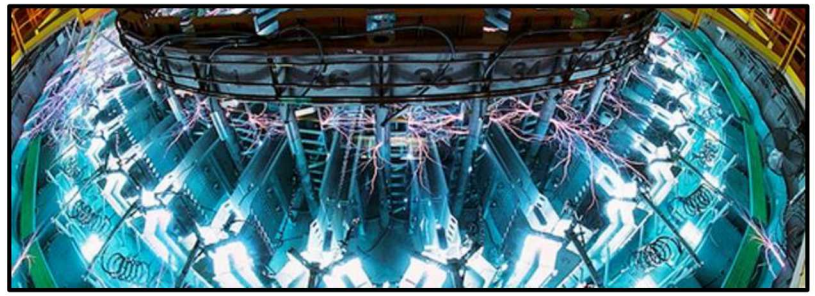
Sandia stewards the U.S. capabilities in fast high-current pulsed power, and is rapidly developing the next generation of pulsed power technologies through a blend of engineering, applied physics, and tech demonstration:

- Access to the flagship pulsed power accelerators in the United States
- Multi-pulse accelerator technology for high-current electron beams
- Advanced pulsed power concepts, components, and configurations
- Science-based evaluations of insulator flashover, electrode performance, laser triggered switches, vacuum engineering, reliability/high-shot-rate, etc.
- State-of-the-art plasma engineering codes for pulsed power design

Sandia frequently has job opportunities in pulsed power physics, high power electromagnetics, and related technologies (visit Careers for details):

- R&D Electrical Engineer (Electromagnetics Experiments) - #668392
- R&D Electrical Engineer (Electromagnetics Analysis) - #668116
- R&D Electrical Engineer (Directed Energy Technologies) - #668825
- R&D Electrical Engineer (Directed Energy Technologies) - #668822
- Graduate Intern (Electromagnetics Simulation R&D) - #668934
- Several internship opportunities through the Science of Extreme Environments Research Institute program, Laboratory Residency Graduate Fellowship program





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Recent Texas Tech Pulsed Power Students at Sandia National Labs

TTU P3E Graduate	Year	SNL Organization / Group	Role
George Laity*	2013	Advanced Pulsed Power Capabilities	R&D Physicist → R&D Manager
Andrew Fierro*	2014	Applied Optical & Plasma Sciences	Graduate Intern (Fellowship)→ Postdoc → R&D Physicist → UNM Faculty
Jacob Stephens	2014	SATURN Accelerator Operations	Graduate Intern (Fellowship)
Landon Collier	2016	Advanced Accelerator Physics	Graduate Intern
Emily Schrock*	2017	Directed Energy Missions	R&D Microwave Engineer
Kirk Rainwater*	2017	SATURN Accelerator Operations	R&D Electrical Engineer
Shannon Feathers*	2017	Electrical Science & Experiments	R&D Electrical Engineer
Hieu Nguyen	2018	Advanced Accelerator Physics	Graduate Intern
Thomas Holt*	2018	Advanced Radiographic Technologies	R&D Electrical Engineer
William Brooks	2019	Advanced Accelerator Physics	Graduate Intern (Fellowship)

**Full-time position on Sandia's Technical Staff*

Please contact me if you have any questions!