



School of Engineering and Applied Science
Department of Electrical and Systems Engineering
200 South 33rd Street
Philadelphia, PA 19104-6321

Postdoctoral Scholar in Power Electronics

University of Pennsylvania – Department of Electrical and Systems Engineering

The Department of Electrical and Systems Engineering at the University of Pennsylvania invites applications for a **Postdoctoral Scholar** in **power electronics** with applications to **medical devices**. The position will be supervised by **Dr. Lei Gu** and will involve collaboration with faculty and researchers across Penn Engineering.

Start date: Open immediately; preferred no later than **January 2026**

Appointment: 1 year, renewable

Compensation: Competitive salary and benefits

Minimum Qualification: Ph.D. in Electrical Engineering or related field

Responsibilities

- Conduct research on high-performance power electronic systems for medical and interdisciplinary applications.
- Design, prototype, and test **high-voltage (≥ 600 V) ac-dc/dc-dc converters** and related hardware.
- Collaborate with a multidisciplinary team; mentor students; publish and present research.

Qualifications

- Expertise in **power electronics and control**.
- Hands-on experience with **electromagnetics/magnetics design** and **high-voltage experimental systems**.
- Strong record of peer-reviewed publications.
- Effective communication and teamwork skills.

Application

Send the following to **Prof. Lei Gu** at leigu@seas.upenn.edu:

1. CV (including publication list)
2. Contact information for **two references**

Learn more about Penn ESE: <https://www.ease.upenn.edu>;

Prof. Lei Gu's lab: <https://leigupe.github.io/>