



## New Graduate and Internship Power Electrical Engineering Opportunities

[www.burnsmcd.com](http://www.burnsmcd.com)

Our electrical engineers are responsible for performing tasks requiring the application of standard electrical engineering techniques and procedures. This includes standard design of electrical systems, assisting lead engineers with various project duties, and other duties as assigned.

Opportunities as an electrical engineer exist in multiple market segments and locations. Specific assignments and project work varies depending on the market segments and locations. Please see below for information on each market:

### **Energy (Power Generation)**

The Energy Group's project portfolio includes all types of power generation technologies — from supercritical coal-fired to gas turbine to integrated gasification combined cycle. Work includes the analysis and design of electrical systems for new power-generating facilities, as well as upgrades to existing facilities. Responsibilities include conceptual design, load flow / short circuit / arc-flash analysis studies, system optimization, equipment specification, electrical infrastructure design, protective relay calculations and settings, configuration, and field commissioning of electrical systems and equipment.

Full-time opportunities are available in our Chicago, Denver, Kansas City, Mo., and Phoenix offices. Internships are available in Chicago and Phoenix.

### **OnSite Power & Energy (Power Generation & Delivery)**

The OnSite Energy & Power Group's projects include the design of large, campus utility systems at universities, airports and health care facilities nationwide. Work includes: central heating and cooling plant feasibility studies and design, combined heat and power studies and design, controls upgrades, distribution upgrades and metering, energy auditing, modeling and optimization, power distribution and transmission, substations, system commissioning, and thermal energy storage

Full-time opportunities are available in our Raleigh, N.C., and Fort Worth, Texas, offices. Internships are available in Fort Worth.

### **Transmission & Distribution/Substation Design (Power Delivery)**

Our substation projects include large generating plant switchyards, transmission/distribution substations, line terminal or equipment additions and upgrades to existing substations in locations across the United States and around the world. Work includes the design of high voltage (13,000 to 500,000 volt) electrical substations. Responsibilities include substation layout, power system analysis and control/relay systems.

Full-time opportunities are available in our Chicago, Denver, Houston, Kansas City, Mo., and Wallingford, Conn., offices. Internships are available in Chicago, Houston and Wallingford.

### **Transmission Planning (Power Analysis)**



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Burns & McDonnell has extensive planning experience with utility companies and regional transmission operators throughout the United States and internationally. Projects work includes generation interconnection studies, load flow analysis, dynamic studies, distribution master plan support and running models, simulations and report writing.

Full-time opportunities are available in our Houston, Kansas City, Mo., and Wallingford, Conn., offices. Internships are available in Houston, Kansas City and Wallingford.

### **Telecommunications/Network (Power Delivery)**

Design and planning of telecommunications and wide area networks on various projects for clients in the electric utility, public safety, and transportation sectors. Utility-based projects are in the areas of SCADA, DA, cybersecurity, MW design, substation communications design, fiber ring design and smart grid design.

Full-time opportunities are available in our Kansas City office.

### **Requirements:**

- Bachelor's degree in electrical engineering from an accredited program.
- Minimum of a 3.0 GPA strongly preferred.
- Prior internship and/or related consulting experience preferred.
- Involvement on campus or in the community.
- Excellent verbal and written communication skills.
- Strong problem solving and analytical skills.
- Demonstrated leadership skills.
- Candidates must be legally authorized to work permanently (i.e., without time limitations, without restrictions or without need for work sponsorship) in the country where positions are located.

[Click here](#) to check out our full-time opportunities.

[Click here](#) to check out our internship opportunities.

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