



## **Southern Company Engineering Opportunities**

### **UPRM full-time and student positions**

We are recruiting co-op, intern, and entry level engineers for career opportunities in Alabama, Georgia, Illinois, and Virginia.

#### **JOB REQUIREMENTS:**

- Bachelor's degree in Engineering in indicated discipline from an ABET accredited university
- Minimum GPA of 2.8 preferred
- US Citizen or Permanent Resident
- May be required to work extended work hours to aid in storm and outage restoration efforts
- Participate in the on-call trouble supervision rotation and must be available after business hours for local, out-of-town, and out-of-state trouble and storm restoration.

#### **KNOWLEDGE, SKILLS & ABILITIES:**

- Proven Leadership Skills
- Good oral/written communication skills and ability to work effectively with varied individuals (craft personnel, support staff, supervisory staff, and management) is a must
- Strong organizational, administrative, time management, project management, facilitation and analytical skills are required
- Knowledge and experience with personal computers and the ability to learn numerous software applications quickly
- Self-motivation and demonstrated initiative is crucial for this position
- Ability to interface with customers, vendors and contractors while representing the best interests of Southern Company

#### **WE ARE RECRUITING CANDIDATES FOR THE FOLLOWING AREAS & LOCATIONS:**

**1) Transmission** – Engineers plan, build, design, operate and maintain more than 27,000 miles of transmission lines and 3700 substations. Transmission assets are the backbone of a system that delivers reliable service at competitive prices to our customers

- **Electrical Engineering degree preferred**
- **Power Systems coursework is desired**
- **Full-time and Co-op positions available within the state of Georgia**

**Protection & Control Field Service Engineers** are responsible for installation, testing, maintenance, and troubleshooting of relay protection schemes. Most of their time is spent in the field making sure the Transmission system performs as it is designed.

**Co-op Transmission Engineer** responsibilities will include commissioning, testing, inspecting, and troubleshooting protection relays and control schemes in power substations. The co-op/intern will be exposed to the daily operations of substation equipment. Co-op/Intern's will also support efforts to respond to Transmission System outages and malfunctions as well as assist in coordinating maintenance activities performed by crew personnel.

**2) Distribution/Power Delivery** – With customers at the center of everything they do distribution engineers plan, build, design, operate and maintain electrical systems that connect homes and businesses to the power grid. Their goals include providing reliable electricity in the most cost-effective way.

- **Electrical or Mechanical Engineering degrees desired (others may be considered)**
- **Full-time and Co-op positions available within the state of Georgia**

**Distribution Engineers** are responsible for the design and management of area construction activities for capital and O&M projects. Responsibilities include developing and implementing distribution plans; identification, analysis, and resolution of problems in the Distribution design area; preparing cost estimates, correspondence, documentation, calculations, and sketches. Storm restoration duties are also required.

**Co-op Distribution Engineers** design, estimate, and construct electrical distribution systems to meet the electricity demands of new and existing customers. Responsibilities include producing accurate estimates and construction drawings, managing all aspects of projects, identifying system improvement projects, assist in distribution system planning for growth and reliability, handling customer inquiries, other. Storm restoration duties are also required.

**3) Nuclear Generation** – Engineers within Southern Nuclear oversee the operations and maintenance of our nuclear plants including construction, design, plant performance monitoring, safety, reliability, troubleshooting, and project planning. They are part of the team ensuring current and newer nuclear technologies continue to be a source for clean, safe and reliable electricity.

- **Electrical Engineering, Mechanical Engineering degree preferred**
- **Power Systems coursework is desired**
- **Full-time positions available at Plant Hatch (Baxley, GA); Plant Vogtle (Augusta GA); Plant Farley (Dothan, AL)**

**System Engineers:** ensure the reliability of assigned plant systems. They solve system and component problems, provide direct technical support for operation and maintenance, and plan long term performance improvements.

**Program and Component Engineers:** direct implementation of assigned programs and work processes. Typical assignments are fire protection, Equipment Qualification, in-service inspection, in-service testing, NRC Maintenance Rule compliance, MOV/AOV/Heat Exchanger/Check valve component programs, cable monitoring, instrument & controls, flow accelerated corrosion, and/or snubber testing.

**Design Engineers:** duties include preparation / coordination of designs, calculations, drawings, cost estimates and schedules for plant modifications and retrofits. Work involves field walk downs for constructability and some construction coordination.

**Reactor Engineers:** ensure the reliability of assigned plant systems. Perform fuel inspections and specifies fuel movement determinations, perform physics testing, support operations in control rod movements, conduct surveillance testing of reactor core, lead spent fuel audits, and perform reactor engineering calculations.

Engineers at Southern Nuclear may have opportunities to manage special projects. Also, engineers typically take key refueling outage assignments. Future developmental assignments in operations, maintenance, training, or quality assurance often prepare engineers for supervisory and management positions. Engineering assignments typically include on-call duty engineer and emergency plan response requirements.

**4) Renewable Development/Distributed Generation** – Interconnection engineers support the interconnection and parallel operation of multiple generating sources (solar, wind, natural, biomass, etc.) to Georgia Power’s distribution system across the State of Georgia. These generation assets make up the future of energy for the State of Georgia.

- **Electrical or Mechanical Engineering degrees preferred (others may be considered)**
- **Power Systems and/or Renewable related coursework is desired**
- **Fulltime positions available located in Metro Atlanta, Georgia**

**Distributed Generation (DG) Interconnection Engineers:** are responsible for facilitating the interconnection of statewide renewable projects to the GPC distribution system. The position will partner primarily with the DG project management team to administer DG programs & contracts and will also have responsibilities for engineering and technical support of other functions pertaining to Renewable Development. The position is responsible for the engineering, design, construction, scheduling, testing, and maintenance of GPC equipment used to interconnect DG solar generation facilities.

**5) Technical Projects & Solutions (T&PS):** The T&PS team is a shared services organization supporting the Generation, Transmission, and Distribution (GTD) business units of Southern Company. The team focuses on providing project management and technical expertise. Prospective candidates can expect to put their education to practice on day 1 by supporting GTD activities such as: modernization of hydroelectric generating plants, oversight of 3<sup>rd</sup>-party engineering activities, project management of environmental activities, T&D grid modernization projects, etc.

- **Electrical or Mechanical Engineering degrees desired**
- **Co-op positions available in Birmingham, AL for mechanical and electrical design**
- **Full-time position available in the Atlanta area for electrical engineers with a power focus for P&C Applications**

**Mechanical & Electrical Design**

This position is responsible for performing mechanical engineering design on environmental projects, new generation projects, and retrofit projects at generating plants for Southern Company Generation. General job duties and responsibilities are: Assist with scope documents, schedules, budgets, P&IDs, piping isometrics, general arrangement drawings, and equipment or commodity specifications. Develop output that adds value to a project. Assist with system checkout and startup when necessary. Effectively communicate with other groups and disciplines to ensure maximum effectiveness. Coordinate multiple tasks simultaneously.

**P&C Applications**

This position will perform protective relay calculations and coordination studies for Southern Company's transmission and distribution systems. This engineer will also perform engineering design and technical services for the specification, application and analysis of protective relaying, control, and automation systems. The incumbent will provide technical expertise and support for design, construction, planning, marketing and customers regarding protection and control of Southern Company's transmission and distribution facilities.

**6) GAS Engineering** – Engineers in our Natural Gas business manage various multi-faced projects to maintain, design, and construct natural gas infrastructure that serves our over 4 million natural gas utility customers. Internship opportunities are primarily office based and include data analysis, modeling, forecasting, trading support and are suited to those individuals with an interest and aptitude in business applications.

- **Civil, Mechanical, Materials, or Industrial Engineering degrees preferred**
- **Internship positions available in Atlanta, GA, Naperville, IL, and Virginia Beach, VA**

**Engineering Design:** Assist & develop designs for project types in two or more of the following: Department of Transportation, Pressure improvement, Renewals, Relocations and New Business process. Become aware of codes & standards that apply to natural gas engineering. Work with lead engineers to serve as liaison & engineering resource on projects. Model Our Values: Safety First, Unquestionable Trust, Superior Performance and Total Commitment.

**Construction Operations:** Assist project engineers, project coordinators, and inspectors with daily tasks which include but are not limited to, project scheduling, project reporting, and construction inspection. Will complete special projects that include processing safety improvements related to field activities, data analytics related to field inspections data, and review of field inspection tools with final recommendations.

**Transmission Integrity Management:** (TIMP) - This position is responsible for the successful migration of the Southern Company Gas Transmission Integrity Management Program (TIMP) Plan from Adobe PDF to our Enterprise Operations Services (EOS) Library. This will be accomplished utilizing the MadCap Flare content management system. Additionally, the incumbent will lead the creation of training material for continued utilization of the content management system. The position will also support the Company's in-line inspection (ILI) efforts by reviewing Codes, Standards, and other relevant documents to further the team's analysis of ILI indications and how responses to indications are calculated and prioritized.

**We offer a competitive compensation package and relocation.**

**Southern Company is an equal opportunity employer where an applicant's qualifications are considered without regard to race, color, religion, sex, national origin, age, disability, veteran status, genetic information, sexual orientation, gender identity or expression, or any other basis prohibited by law.**