



**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 and Georgia

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.

Nuclear

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. Responsibilities also include providing timely response to plant activities requiring emergent engineering support, including troubleshooting, Operability Determinations, Operability Decision Making Issues, and temporary modifications support.

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.

Coop Engineers - This position will be exposed to the same environment as a full time in any of the positions described above for Nuclear Generation.

Southern Nuclear operates a total of seven units for Alabama Power and Georgia Power at the Joseph M. Farley Nuclear Plant near Dothan, Ala.; the Edwin I. Hatch Nuclear Plant near Baxley, Ga., and the Alvin W. Vogtle Electric Generating Plant near Waynesboro, Ga. The company recently achieved commercial operation on Vogtle Unit 3 and is the current licensee of Vogtle Unit 4, which is under construction. Both of these units represent historic achievements for the nuclear industry as the first new nuclear units to reach commercial operation and be built in the United States in the last three decades.

For more than 40 years, Southern Nuclear has operated nuclear energy facilities at the highest levels of safety and reliability, creating carbon-free electricity for millions of homes and businesses.

Responsibilities include maintaining plant schedules, collecting data for systems performance evaluation, maintaining plant procedures, and assisting engineers with special studies and projects. Other duties may include testing, monitoring, and trending of equipment and nuclear fuel; supporting plant maintenance; and supporting plant operations. Co-Op/Intern will also help initiate hardware changes; procedures and training that enhance plant performance. Assignments will vary for each work term based on project needs. Students will gain practical work experience and developmental opportunities.

- Majors: **Electrical, Mechanical, Nuclear, and Chemical Engineers**
- Location & Positions:
 - Plant Farley (Dothan, AL)
 - Plant Hatch (Vidalia, GA)
 - Plant Vogtle 1&2 (Waynesboro, GA)
 - Plant Vogtle 3&4 (Waynesboro, GA)

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.

Power Delivery

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 and Mechanical Engineering degree preferred**
- **Power Systems coursework is desired**
 - **Protection and Control class lines up well with this work (INEL 5415)**
- **Full-time and Co-op positions available within the state of Georgia (Macon, Athens, and Augusta)**

Protection & Control Field Service Engineers are responsible for commissioning, testing, maintenance, and troubleshooting of relay protection schemes and/or substation integration and automation equipment. Most of their time is spent in the field making sure the Transmission system performs as it is designed. This role leads substation improvement projects to ensure the correct functionality of all the protection and control equipment. This is both a technical and a hands-on role. Additional experiences/responsibilities include:

- Exposed to daily operations of substation equipment.
- Support efforts to respond to Transmission system outages and malfunctions.
- Assist in coordinating construction and maintenance activities of power systems.

Co-op Transmission Engineer – This position will be exposed to the same environment as a Protection & Control Field Service engineer. The emphasis is to learn the basics while finding ways to contribute.

2) Distribution – 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 (Metro area (Atlanta, Jonesboro, Sands Place & Alpharetta))**

Distribution Engineers are responsible for the design and management of construction activities for capital and O&M distribution 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. While the transmission engineers spend most of their time in substations, distribution engineers interact directly with the customers (both residential and commercial). This role often has opportunities to be part of restoring customer's power from a closer proximity to the customer.

Co-op Distribution Engineers – This position will be exposed to the same environment as a Distribution engineer. The emphasis is to learn the basics while finding ways to contribute.