



Power Generation Student Opportunities

Areas of Opportunity: Generation (Fossil Fuel), Hydro, Nuclear

Locations: In-person across AL, GA, and MS

Semesters: Summer 2024, Fall 2024 & Spring 2025

Student Program Benefits: Insight into the making of energy – Hands on experience working in a plant environment – Meaningful work assignments and job shadowing in areas of interest – Multiple networking opportunities with senior leaders, managers, and current interns/co-ops – Health/Dental/Life Insurance – Tuition Reimbursement – Housing assistance at manager discretion – Paid Vacation/Sick Time and more.

Requirements: Minimum of 2.8 (3.0 for internship positions), Commitment of 3 alternating semesters (co-op positions only) and current authorization to work in the United States.

Southern Company Generation manages production, fleet operations, planning, engineering and fuel procurement for Southern Company's coal, oil, gas and hydro generating units at 103 power plants. We provide energy that is reliable, affordable and cleaner than ever.

By carefully forecasting energy needs and securing the most economical energy sources available, we're able to operate our power plants at a 99 percent level of reliability—among the highest in the nation. At the same time, we have one of the lowest forced outage rates in the industry and retail electric prices that are significantly below the national average.

We're also an environmentally responsible company. Since 1990, we've made significant reductions in sulfur dioxide and nitrogen oxides at our plants. We're at the forefront of research to generate electricity from new and cleaner fuel sources.

Plant Operations

Southern Company Generation produces power for customers in our service territories. As a co-op within **Plant Operations** responsibilities include engineering related projects such as installation, calibration and performing inspections on equipment. Co-op will gain knowledge of boilers, turbines, pumps, control systems, motors and switchgears and will address problems that affect unit/plant performance, reliability, efficiency, safety, environmental compliance, and cost. Additional tasks may include collecting and testing various samples from the plant (i.e., water, coal, fly ash) as well as taking vibration and meter readings for performance data. Duties may also include interpreting and maintaining blueprints, diagrams, and plant system drawings, use of AutoCAD, participating in equipment testing, and addressing corrective, preventive, and predictive maintenance issues in electrical & mechanical areas.

- Majors: **Electrical, Mechanical, and Chemical Engineers**
- Locations:
 - Plant McDonough (McDonough, GA)
 - Plant Scherer – (Juliette, GA)
 - Plant Bowen - (Euharlee, GA)
 - Plant Barry (Mobile, AL)
 - Plant Miller (Quinton, AL)
 - Plant EC Gaston- (Wilsonville, AL)
 - Plant Ratcliffe (De Kalb, MS)

Hydro Generation

Hydro power is the most widely used renewable energy source in the world. It generates less pollution than fuel-burning power generation methods while creating public recreational areas and new habitats for wildlife. Southern Company's hydro fleet consists of 29 dams in Alabama and Georgia providing about 2,800 MW of generation, making up 5-7 percent of our overall generation mix. Co-ops will have the opportunity to be involved in the Hydro Modernization efforts, a \$2 billion dollar, 10+ year project. In addition to daily plant activities, co-ops will get exposure to Dam Safety Engineering, Licensing, Turbine and plant support engineering.

- Majors: **Mechanical, Electrical, and Civil Engineers**
- Locations:
 - Chattahoochee Hydro, Plant Bartletts Ferry (Smith's Station, AL)
 - Central GA Hydro (Eatonton, GA)
 - North GA Hydro (Clarkesville, GA)
 - Logan Martin Dam (Alpine, AL) – **Construction Mngmt, Geology**

Compliance & Support

- Majors: **Biology, Chemistry, Environmental Science**
- Locations: **Plant Scherer – (Juliette, GA)**
 - **Chemical Technician** - The responsibilities of the plant Chemical Technician will include performing technical and analytical services essential to the operation of a fossil fuel power plant, including.
 - **Compliance Specialist** - The Compliance Specialist maintains an in-depth knowledge of current environmental laws and regulations as they apply to the plant and uses that knowledge to ensure compliance with permits and regulations. Also recognizes environmental compliance issues that require attention and proactively addresses them.

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.