Alabama Power Company - Power Delivery Technology Position Overviews:

Locations: Hybrid - Birmingham, AL

Semesters: Summer 2025

Requirements: Minimum of 3.0, current authorization to work in the United States.

Majors: Electrical Engineering, Computer Engineering, Computer Science, MIS, Cybersecurity, Data Analytics, Geographic Information Systems

Skills Needed: Oracle, Software Development, Database Management (MSSQL, PostgreSQL), Python, Java, Excel, among others.

Power Delivery Technology has various opportunities for students to apply their technical skills on the job in the following areas: software development and support, reporting/data analytics, cyber-security, infrastructure hardware, Power Engineering, or Distributed Energy Resources. Students will also have the opportunity to enhance and expand their knowledge and skillset by working alongside a dedicated mentor throughout the term. Power Delivery Technology is looking for candidates that possess an interest in these areas and strive to be on the cutting edge of technology to make a positive impact for the customers of Alabama Power.

Power Delivery Technology – ADMS

Power Delivery Technology has various opportunities for students to apply their technical skills on the job in the following areas: software development and support, reporting/data analytics, cyber-security, infrastructure hardware, Power Engineering, or Distributed Energy Resources. Students will also have the opportunity to enhance and expand their knowledge and skillset by working alongside a dedicated mentor throughout the term. Power Delivery Technology is looking for candidates that possess an interest in these areas and strive to be on the cutting edge of technology to make a positive impact for the customers of Alabama Power.

As a Power Delivery Technology intern, you can expect to:

- Work on small projects or portions of larger projects.
- Work with a diverse group of analysts and engineers, with a common goal of supporting ADMS in various aspects of the software platform.
- Network with other interns/co-ops across all of southern company.

Power Delivery Technology – Information Systems Analyst

This position will work with engineers, information system analysts and application developers in the Alabama Power Company's Power Delivery Technology organization. This intern will use web application development, GIS technology, and engineering to provide creative solutions to customer needs across APC. This position will use programming to aid in the development of new code and/or applications, maintenance and updating of existing scripts, and other duties related to supporting the PD

Technology group as well as their customers. The position will work with individuals across the Power Delivery organization and will have the opportunity to learn about how power is made, moved, and consumed. They will have an opportunity to help improve the working environments of those individuals who are serving our communities each day. The successful candidate will be responsible for participating in a creative and highly motivated atmosphere, contributing toward product development, end-user support, and the creation of innovative tools.

Power Delivery - Advanced Meter Infrastructure

The APC AMI team is a group of professionals who manage the flow and quality of Advanced Meter Infrastructure (AMI) data from customer meters to the APC billing system. They include the operations, the support, and the data analytics team. Their responsibilities include:

- Ensuring the continuous availability of high-quality data from AMI systems like Sensus RNI, Landis+Gyr Command Center, MV90Xi, and Oracle MDM to CSS and other systems that rely on meter data.
- Maintaining the proper functioning of servers, routers, operating systems, and databases to facilitate accurate data reporting.
- Analyzing daily meter performance to guarantee data continuity and quality, monitoring billing success, and pinpointing potential operational issues.
- Preparing daily analyses of AMI system and meter performance, reporting problem areas, summarizing performance trends, and developing operational processes to enhance data collection efficiency.
- processing and analyzing the data to discover patterns, trends, and insights that inform decision-making. By employing advanced algorithms and machine learning models, the Data Science team further augments the value of this data, optimizing operations and generating deeper insights that contribute to the organization's overall success.

AMI Data Analytics:

Requirements: Technical Skills: Proficiency in data analysis tools (e.g., SQL, Python, Excel) and data visualization tools (e.g., Tableau, Power BI), Understanding of database management is a plus. Experience in any flavor of the cloud environment is an added advantage. Strong problem-solving skills, ability to analyze large datasets, and identify trends and anomalies.

AMI Support Team:

Requirements for Electrical Engineering Majors: Ability to work with others to achieve resolution for issues with AMI Systems or data quality, Daily communication with internal partners to ensure accurate dataflow, Develop and maintain meter programming and configuration for electrical metering systems, Ensure accurate rate code configuration in metering systems, Conduct analysis of meter data to identify trends and insights

Requirements for Computer Science Majors: Ability to work with others to achieve resolution for issues with AMI Systems or data quality, Daily communication with internal partners to ensure accurate dataflow, Develop and maintain queries, scripts, or programs to enhance data analysis, Prepare summaries and reports of AMI operational activities and results for APC management