



Technology Organization Student Opportunities

Teams: Technology Security, Infrastructure Services – Field Operations Data Analytics, Technology Innovation, Enterprise Technology Solutions, Early Program Talent Management

Locations: Hybrid – Birmingham, AL or Atlanta, GA

Semesters: Summer 2024 & Fall 2024

Internship Benefits: Insight into the making, moving and provision of energy - Hands-on experience working on systems in a production environment - Meaningful work assignments and job shadowing in areas of interest - Opportunity to work on a Capstone Project for the EVP & CIO of the Technology Organization - Dedicated Mentor during the duration of the internship - Multiple networking opportunities with senior leaders, managers, former interns, and current interns

Position Overviews

Technology Security (Cyber Security):

Within TO, the Technology Security organization's core objective is to ensure a secure and reliable environment for the consumers of our services, both internally and externally. Protecting the confidentiality, integrity and availability of our assets ensures the continuation for Southern Company and its affiliates to move, make and sell electricity. Our complex environment generates a constant stream of opportunities which require continual innovation with an evolving set of technologies.

Threat Assessment Services:

Threat Assessment Services is tasked with proactively identifying security threats and risks across the Southern Company environment. Three distinct programs support the mission of this department, including Vulnerability Management, Threat Hunting and Red Team.

Requirements: Basic understanding of patching and vulnerability management, Programming experience, Data analysis experience, Experience developing and testing exploits or vulnerability scanning is a plus, Interest in learning proactive approaches to assessing cybersecurity risk, Interest in learning more about forensic approaches to identifying malicious activity

Identity Security:

The Identity Security team is responsible for architecture, infrastructure operations, and provisioning of digital identities throughout the Southern Company technology ecosystem. The team manages a long list of identity products including on-prem and cloud identity providers, multi-factor authentication agents, privileged access management, public key infrastructure, and mainframe security including responsibility for the service management flows associated with these products and the provisioning of non-human accounts and supplemental workers.

Requirements: Candidate should have an interest in cybersecurity – specifically in Identity and Access Management – and a strong desire to work in an arena of electric and gas critical infrastructure. Beneficial skills for the role include an understanding of human and non-human identities, automation/development capabilities, network and server operations, and an understanding of modern, evolving security risks. Softer skills relevant to success include the ability to coordinate with others, solid written and verbal communication, ability to self-start and prioritize, and a positive demeanor.

Digital Defense Center:

In this role, you will assist with security infrastructure management, detection engineering and automation for our Security Operations Center (SOC) and other technology security teams. We manage 29+ security platforms and you will learn a lot about security logging and detections.

Requirements: Basic understanding of computers, Fundamental knowledge of networking (TCP/IP, OSI model, etc), Unix/Windows server knowledge a plus, Python, Basic syslog knowledge a plus

Enterprise Technology Solutions – Agile Development:

Enterprise Technology Solutions enables enterprise transformation by leveraging technical and subject matter expertise to drive innovative advancements to the digital ecosystem of Southern Company. The team is responsible for implementing and maintaining technology solutions that support critical business areas like Finance, Human Resources, Supply Chain, Compliance/Legal, and the Technology Organization.

The Agile Process Management team, comprising Scrum Masters and a Release Train Engineer, plays a pivotal role in our organization's agile transformation. They ensure seamless coordination among teams for efficient product delivery. Scrum Masters foster the team's culture of continuous improvement, champion agile principles, and manages the completion of planned work, while the Release Train Engineer aligns the process with strategic goals.

The Agile Process Management team is seeking an intern to work closely with Scrum Masters to assist with Agile delivery leveraging Scaled Agile for Enterprises (SAFe), Scrum, Kanban, and other Agile practices. Scrum Masters in our organization are servant leaders who can effectively collaborate, facilitate, and influence in a matrixed team environment.

The successful candidate will work closely with teams to ensure that work/projects are completed on time and to the highest possible quality. They will also work with a Release Train Engineer and the Agile Process Manager to provide direction towards maturing and optimizing Agile execution within teams. This role will interact closely with Technology and Business stakeholders to educate and ensure business outcomes are achieved.

Requirements: Ability and desire to achieve Scrum Master certification (CSM, PSM, PMI-ACP, SAFe, etc.) in the future. Basic knowledge and understanding of the following key concepts: Agile mindset with basic understanding of Agile practices (Scrum ceremonies, information radiators, continuous improvement techniques, Kanban, XP, etc.). Knowledge of Scrum success patterns, common challenges, and techniques to course correct when issues arise. Knowledge of the Software Development Life Cycle and Release Management. Sprint Methodology

Enterprise Technology Solutions: Product Delivery

The Product Delivery team works to enable consistent approaches and tools for Record to Report processes to support financial reporting and billing and provide strategic planning support to gain efficiencies, satisfy compliance and/or reduce risks, while responding to business/technology changes.

The Product Delivery team is seeking an intern to work closely with subject matter experts to assist with entry level application support for the Record to Report process in the Oracle suite of products. The intern will assist the team in ensuring stable/efficient operation of these critical enterprise applications by troubleshooting issues, optimizing system performance, and supporting end users. The successful intern will gain valuable experience by providing solutions support including configuration, unit testing, controls execution, and access management set-up in the Oracle suite of products. The successful candidate will also analyze and resolve system defects, participate in

system optimization by identifying and implementing enhancements, and conduct research about the latest features and functionality of Oracle.

The successful candidate will receive exposure, training, and practical experience in:

- Oracle suite of products including: Oracle Fusion ERP - Financials (General Ledger, Projects), Oracle Smartview, Oracle Fusion EPM (ARCS and FCC), PowerPlan Tax solutions, and DRM.
 - Reporting tools like OTBI and BIP.

Requirements: Demonstration of good understanding in several concepts including: Monitoring, Troubleshooting, Root Cause Analysis and Log Analysis, Scripting, Operating systems, Databases and Networking, Cloud Services, Basic understanding of Security, Agile concepts and Incident Management.

Enterprise Technology: Platform Availability Application Analyst

Enterprise Technology Solutions enables enterprise transformation by leveraging technical and subject matter expertise to drive innovative advancements to the digital ecosystem of Southern Company. The team is responsible for implementing and maintaining technology solutions that support critical business areas like Finance, Human Resources, Supply Chain, Compliance/Legal, and the Technology Organization.

The Platform Availability Team enables seamless operations, reduces disruptions, and ensures the highest level of availability and reliability for our organization's critical platforms.

The Platform Availability Team is seeking an intern to work closely with subject matter experts to perform daily checkout and critical job monitoring activities for various enterprise technology platforms. The intern will have the opportunity to assist in resolving technical issues impacting platforms in our portfolio, troubleshoot problems, and provide effective solutions. The intern will also assist in documenting support requests, resolutions, and frequently encountered problems to build a departmental knowledge base.

The successful candidate will have the opportunity to gain knowledge, experience, and exposure to:

- Oracle
- Cloud Services
- Scripting (PowerShell, Python, SQL queries)
- Incident management processes and ticketing systems (JIRA, Agility, ServiceNow)

Requirements: Demonstration of good understanding in several concepts including: Monitoring, Troubleshooting, Root Cause Analysis and Log Analysis, Scripting, Operating systems, Databases and Networking, Cloud Services, Basic understanding of Security, Agile concepts and Incident Management

Infrastructure Services: Field Operations East & National Support Analyst

Infrastructure Services is responsible for providing secure, reliable and compliant network and computing environments that support the current and future needs of the business. Infrastructure Services fulfills these needs through an innovative and dedicated staff that provides strategy, planning, engineering, implementation, support, maintenance and 24/7 monitoring services for Southern Company's networks (telecommunication, data, voice and wireless), and computing platforms (servers, storage and mainframe).

This intern position will assist the Fields Operations East & National Support Analyst (SA) with day-to-day responsibilities. The SA is responsible for supporting analytics, reporting, financial monitoring (actuals and budgets), process development, project management, and work coordination and prioritization for the Field Operations (FO) group. The Support Analyst has primary responsibility for the ongoing administration, integration, and product support for FO activities related to Southern Company's computing, network, and transport infrastructure. The SA

position is a liaison between FO, the Technology Organization (TO), Operating Companies, and various technology vendors.

The Support Analyst (SA) works collaboratively with the leadership team and Telecommunications Analysts (TAs) to support the organization's day-to-day business operations and long-term strategies. The SA provides reporting and analytics support, is a single point of contact for vendor maintenance and break-fix support, helps with the ingestion of work activities, supports the management of the day-to-day workload of Technicians and Telecommunications Analysts, assists with the coordination of internal business partners and external vendors and provides documentation. The SA attends meetings, builds and nurture relationships with partners and vendors, demonstrates an overall knowledge of the Field Operations organization's roles and responsibilities, and communicates effectively with all parties. The SA works closely with the Group Manager and leadership team to provide back-office support to the organization.

Time will be set aside for non-job specific internship-related tasks including capstone project work, internship calls/meetings, student of the business trips, etc.

The Intern will work with the Field Ops Support Analyst to provide support to the department. Bring an open mind that's willing to share ideas and learn each day. Below are the focus areas for this internship:

- Provide analytical and reporting support, including metrics, performance indicators, dashboards, etc.
- Develop documentation that can include accounting codes, maintenance processes, standards, etc.
- Provide organization and administration of SharePoint sites.

Requirements: Keep Safety & Wellbeing First, Embody Southern Company's values: Safety First, Intentional Inclusion, Act with Integrity and Superior Performance, Must enjoy working within an office environment, Must enjoy collaborating and building relationships with others, Must have demonstrated personal computer skills with an eagerness to learn new tools. Must have good verbal and written communications skills. Ability to work independently, self-starter with good time management skills.

Preferred interests or skills to build upon: Power BI development, SharePoint administration, MS Office suite of applications, specifically Excel, Word, Forms, and PowerApp.

Technology Innovation:

As an intern on the Technology Innovation Team, you will primarily develop rapid prototypes. The solutions may include applications, games, and AI development. Emerging technology research is an integral part of the position, as being on the cutting edge of technology is necessary for any innovation organization. In addition to development work, an intern will also participate in demonstrations of the prototypes and help leadership facilitate innovation challenges. Specific job responsibilities include:

Teamwork

- As an integral part of the team, participate in the work planning for the team, share updates in daily standups, and keep leadership up to date on any roadblocks.

Rapid Prototyping

- Participate in the development and prototyping of ideas from the backlog.

Emerging Technology

- Research disruptive technologies and incorporate findings into Emerging Technology tracking program.

Ideation Sessions

- Work with leadership to facilitate ideation sessions by leading a small group in Design Thinking practices. Duties include documenting all deliverables, logistical and tech support, and contributing to ideation.

Demonstration

- Participate in demonstration of prototypes, emerging technology research, and Ideation Session deliverables.

Requirements: Experience in or ability to quickly learn the following skills: Programming: Python, C#, Web Stack, Mobile platforms, Software: Office 365, Adobe CC, Unity, Unreal 5, JIRA, MIRO, Generative AI, and like programs, Technology: AI, video analytics, smartphones, AR/VR/XR, robotics, Gamification, Knowledge of computer/mobile hardware, Previous business experience is a plus.

Early Career Talent Program Office

The Technology Organization's Early Career Talent (ECT) Program Office is responsible for hiring, developing, and retaining early career technical talent. The Program Office oversees the organization's internship program, military recruiting efforts, external partnerships, and employee development program.

The ECT Program Manager is seeking an Intern Project Coordinator to assist with the tactical execution of the program office objectives. The position will afford the successful candidate the opportunity to gain hands-on experience in project management, database creation/management, data analytics/reporting, website design/maintenance, task automation, video production/editing, event planning and more. Additionally, the successful candidate will learn and utilize skills in SharePoint, Power Automate, Microsoft Project, Power BI, SQL and more.

Requirements: Exhibit strong technical aptitude and acumen, strong written and verbal communication skills

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.