

**Sr. Research Engineer, Retail Applications
Auburn University**

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Posted May 8, 2025, set to expire Oct. 31, 2025

Job Title	Sr. Research Engineer, Retail Applications
Department	RFID Lab
Institution	Auburn University Auburn, Alabama
Date Posted	May 8, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Computer Engineering Computer Science
Job Website	https://www.auemployment.com/postings/53433
Apply By Email	
Job Description	

Job Description Summary

Position: The Auburn University RFID Laboratory, affiliated with multiple colleges on campus, invites applications for the Sr. Research Engineer, Retail Applications. This position is a 12-month non-tenure track position.

About the RFID Lab: The Auburn University RFID Lab is a proven leader in RFID research and technology application. The Lab collaborates with partners to develop specialized technologies designed to enhance RFID and serialized identification sensor capabilities and improve data capture systems in various technology fields, and researches and promotes the business case and value of adoption in food operations and supply chain. The RFID Lab includes a simulated factory, warehouse, distribution center, retail, aviation, and food formats – including mall apparel and high-end fashion

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boutiques. The Lab is active in many research areas, including engineering, food safety, logistics, and using various wireless technologies to develop new solutions. The RFID Lab engages undergraduate and graduate students and faculty members to test technology, develop intellectual property, obtain patents, and potentially generate growth in the RFID market with new companies and products. Detailed information about programs and faculty is available [here](#).

Responsibilities: Under the supervision of the Managing Director, the primary function of the position is to aid in the oversight and management of the daily operations of the Retail RFID Identification Lab. The Retail unit of the Lab is engaged in planning and performing analyses and tests required for research, development, and/or quality control including responsibilities such as: managing the design and planning of experiments, tests, and laboratory sequences; managing lab testing systems and retention and presentation of lab data; ensuring lab testing and reporting consistencies are maintained with large research datasets; generating new research project concepts; and overseeing and participating in faculty and industry research projects.

Specifically, the essential duties and responsibilities related to this opportunity include:

- Aids in the oversight of the daily retail operations of the Lab to meet schedules, standard procedures, record keeping and reporting requirements. Manages the design and planning of experiments, tests, and laboratory sequences; manages lab testing systems, and retention and presentation of lab data. Ensures lab testing and reporting consistencies are maintained with the large research datasets.
- Develops, compiles, and maintains large data sets of RFID, EPC, and UPC data; collects and analyzes data to provide reports to enhance the mission and goals of the Lab. Monitors and assures data quality and determines how to translate it into usable, actionable information for the formation and execution of strategies and measures of success.
- Collaborates with key stakeholders to identify areas for improvement, assess current practices, and develop customized solutions that align with the unit's unique needs and goals. Provides ongoing consultation and support to ensure that the recommended improvements are successfully implemented and yield measurable results.
- Designs standard and customized reports, dashboards, and templates that provide an overview of operational, business, and financial data for stakeholders and RFID Lab leadership. Assists in the creation of operational metrics and key performance indicators, using such standards to assist stakeholders in managing business operations to achieve best practices including process improvement, cost savings, revenue generation, spending patterns, and increased efficiencies.
- Develops and communicates with stakeholders, suppliers, business partners, professional

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organizations, and others in support of program initiatives. Provides support and feedback on business reports to ensure that data is used effectively. Disseminates program outcomes and findings through journal publications, news articles, and conference presentations.

- Assists in Sponsored Project coordination and grant management, supports external partner activities, visits, and events for the Lab and University fundraising purposes.
- Generates new research project concepts and oversees and participates in faculty and industry research projects.
- Manages Lab researchers to include schedule development, timekeeping activities, instructing and training students on the safe and proper use of the Lab and associated equipment.
- May travel for recruiting, events, and research as necessary.
- May be responsible for training, assisting or assigning tasks to others. May provide input for performance reviews of other employees.
- Performs other duties as assigned.

About the College and University: The Harbert College of Business has a strong tradition of providing highly desirable graduates and generating knowledge that drives diverse business thought and sustainable business practice. The college and its programs consistently rank among the nation's best public undergraduate and graduate business programs. The Harbert College has experienced steady enrollment growth in recent years and currently serves well over 6,500 undergraduate and graduate students through six academic departments offering eight undergraduate majors and multiple Masters and Ph.D. options. The college pioneered online masters and executive education programs that are now ranked among the very best in the nation. The college has invested in building a nationally recognized faculty that moves thought forward through research, engages with industry, and delivers relevant and current instruction.

The Auburn family values tradition, yet eagerly prepares for the future. Rooted in more than 160 years of tradition, Auburn University occupies 1,841 acres and is the academic home to more than 30,000 students. Auburn's commitment to active student engagement and professional success, and public/private partnerships garners a growing reputation for outreach and extension that delivers broad economic, health and societal impact. Auburn University is one of the best places to work in the state of Alabama, according to the 2024 America's Best-in-State Employers list released by Forbes magazine.

Location: Auburn, AL, is a vibrant and thriving college town and community. Southern Living recently recognized the city of Auburn as one of the top small towns in the South, and Money magazine named Auburn the best place to live in Alabama. Known as the 'Loveliest Village on the Plains,' Auburn offers

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a high quality of life, including a vibrant cultural scene at the new Gogue Performing Arts Center, SEC sports throughout the academic year, national award-winning chefs and restaurants, a K-12 school system that is top-ranked in the state, general and concierge healthcare options, and an exceptional College of Veterinary Medicine for pet care. Chewacla State Park, just five miles from campus, offers camping, hiking, mountain biking, and swimming and boating opportunities. Auburn's historical sister town, Opelika, is a fifteen-minute drive and has become known for its eclectic downtown offerings, including multiple breweries, boutiques, and hobby shops. The Atlanta Hartsfield International Airport is only 90 minutes away, with numerous shuttle service options to/from Auburn daily. Birmingham is a similar drive to the north, and Montgomery, the state capital, is only 50 minutes to the southwest. Beaches and mountains are only a 3–4-hour drive. Auburn University is understanding of and sensitive to the family needs of faculty, including dual-career couples.

Auburn University is an EEO/Vet/Disability employer

Minimum Qualifications

Qualifications: Candidates must have a doctorate in Computer Science, Computer Engineering, Electrical Engineering or a closely related field, when employment begins. Additionally, candidates must have at least 1 year of experience designing, analyzing, and reporting RFID data. The successful candidate must be legally authorized to work in the United States at the time of appointment and be able to work legally for the term of employment.

Additional qualifications include:

- Advanced knowledge of Radio Frequency systems and computer networks.
- Proficient in gathering client requirements, documentation, and solution development.
- Experience in RFID Data Analytics and Compliance Metrics.
- Must be proficient with EPC to UPC data transformation and EPC saturation reporting systems.
- Proficient in Tableau, PowerBI, SQL, Python, & Power Automate to create client dashboards.
- Strong research skills with experience in data analysis and technical documentation.
- Extensive technical expertise in computer science principles, including software development, system architecture, and data processing methodologies.
- Excellent written, organizational, and communication skills.

Desired Qualifications

Special Instructions to Applicants

Process: Review of application materials will begin May 21, 2025, and continue until a qualified

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candidate is selected and recommended for appointment. To be actively considered for this position, interested candidates must submit the following materials:

- A brief cover letter outlining their interest in the position
- A curriculum vita
- Copy of all relevant transcripts
- Contact information for three (3) references.

All application materials should be submitted to: <https://www.auemployment.com/postings/53338>

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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