Assistant Research Scientist Job Description

- Working alongside researchers to design and create methodologies, for studies and experiments
- Prepare laboratory instruments, equipment, and materials for conducting experiments
- Conduct independent and collaborative studies using methods
- Monitor experiments, collect data measurements, document findings and ensure results
- Analyze findings draw conclusions and derive insights from data
- Write technical reports that outline processes, techniques, materials used, observational findings, conclusions drawn and recommendations for future work
- Present research outcomes to professors, colleagues and industry partners while engaging in meaningful discussions to exchange ideas
- Conduct literature reviews to inform studies and identify areas where further investigation is needed due to knowledge gaps
- Stay up to date with the latest developments and best practices, in your specific field of expertise
- Cleanse equipment as needed while also preparing it for use. Additionally calibrate instruments regularly to maintain accuracy
- Ensure laboratory conditions and environments meet standards and controls before experiments
- Follow protocols and comply with all regulations, controls, contracts, health/safety standards, and funding requirements
- Develop graphs, charts, scientific diagrams, and other visualizations to communicate complex information
- Contribute segments to grant proposals, patents, and academic papers for vetting and publication
- Co-author articles on experiments and findings for submission to scientific journals

- Develop intellectual property with commercialization and technology transfer potential
- Train and mentor undergraduate and graduate students in the lab environment
- Supervise and guide the work of technical support staff on routine tasks
- Manage experiment schedules, recording systems, equipment budgets and laboratory inventory
- Place orders for laboratory materials, supplies, chemicals, and inventory
- Participate in scientific conferences and share experimental techniques with peer researchers
- Stay abreast of the latest published research across disciplines
- Collaborate with lab teams and external partners on interdisciplinary projects
- Develop custom software, data analysis tools, models, prototypes, and workflows to advance projects.