

# Elizabeth Richardson

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## SUMMARY

A passionate scientist with over five years in molecular biology research, specializing in assay development and data analysis. Strong history of managing complex experiments to enhance diagnostic products and solutions. Committed to mentoring emerging scientists while fostering collaboration across teams. Developed practical strategies to improve lab efficiency and uphold safety standards. Engaged in influential scientific conferences, establishing collaborative ties within the industry. Continuously seeking opportunities for integrating cutting-edge techniques in developing evidence-based solutions which translate into a meaningful impact in healthcare.

## EXPERIENCE

### Scientist, Molecular Biology

June 2021 - Present

Innovative Life Sciences Corp

Dallas, TX

Lead scientist focused on conducting ground-breaking research in molecular biology, specializing in the design of complex assays while guiding junior team members. Collaborate closely with interdisciplinary teams to optimize laboratory processes and ensure high-quality outputs.

- Conducted intricate experiments that led to innovative diagnostic assays improving product efficacy and reliability.
- Designed experimental protocols contributing to multiple peer-reviewed research publications bolstering company reputation.
- Collaborated across teams to refine workflows, significantly reducing project timelines and enhancing productivity.
- Mentored junior staff, imparting essential training and promoting an environment conducive to learning and growth.
- Presented findings at prominent conferences, cultivating professional relationships and potential partnerships in the scientific community.
- Maintained comprehensive records ensuring adherence to regulations while advancing reproducibility standards.

### Research Scientist

January 2018 - May 2021

Advanced Research Group

Austin, TX

Research scientist responsible for driving projects related to novel molecular assay development and collaborating seamlessly with cross-functional groups. Focused on achieving project milestones while navigating technical challenges effectively.

- Led innovative projects that validated two novel molecular assays now used in clinical practice.
- Utilized statistical software for rigorous data analysis, deriving actionable insights that guided further developments.
- Worked collaboratively to troubleshoot experimental difficulties, foster teamwork, and improve overall outcomes.
- Authored detailed technical reports and participated in patent applications streamlining the intellectual property process.
- Actively contributed in team meetings, providing important scientific perspectives and coordinating project dynamics.
- Implemented updated protocols boosting both operational safety and reducing material waste efficiently.

## LEADERSHIP & AWARDS

- Recipient of Innovation Award for significant contributions to laboratory advancements.
- Elected as Chair of Safety Committee, championing laboratory safety culture and initiatives.

## EDUCATION

### PhD in Molecular Biology

2017

University of Texas at Austin GPA: 3.8

Austin, TX

**Coursework:** Biochemistry, Genetics, Cell Biology, Organic Chemistry

## CERTIFICATIONS

- Certified Molecular Biologist 📅 2019
- Laboratory Safety Certification 📅 2020

## TECHNICAL SKILLS

- **Laboratory Software:** GraphPad Prism, MATLAB, RStudio
- **Data Analysis Tools:** SPSS, Graphs, Bioinformatics
- **Experiment Documentation:** Jupyter Notebook, LabArchives, Microsoft Excel
- **Communication Platforms:** Zoom, Microsoft Teams, Slack
- **Statistical Methodologies:** Regression Analysis, ANOVA, Descriptive Statistics

- **Assay Development Techniques:** PCR, ELISA, Gel Electrophoresis
- **Compliance Standards:** ISO 17025, GLP, GMP
- **Project Management Tools:** Trello, Asana, Smartsheet
- **Presentation Software:** Microsoft PowerPoint, Prezi, Canva
- **Research Publications:** Peer Review, Technical Reports, Patent Applications

**SKILLS**

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- Molecular Biology
- Data Analysis
- Experimental Design
- Project Management
- Technical Writing
- Team Leadership
- Assay Development
- Statistical Software
- Collaboration
- Regulatory Compliance
- Laboratory Techniques
- Troubleshooting
- Safety Standards
- Documentation
- Problem Solving

**PROFESSIONAL AFFILIATIONS**

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- Active member of American Society for Microbiology, participating in ongoing education and workshops.
- Volunteer for local STEM programs, inspiring students through hands-on science experiences.

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST