

Hazel Halo

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PROFESSIONAL SUMMARY

Laboratory technician with hands-on experience operating an automated mRNA synthesis production lab and a molecular-biology foundation spanning BSL-2/3 work, cell culture, nucleic-acid extraction and purification, and QC testing. General lab skills reinforced with a suite of cross-disciplinary experiences for rapid adaptation and fresh perspective. Seeking a laboratory technician role in Seattle.

LABORATORY SKILLS

Techniques: mRNA synthesis; plasmid design, cell cultivation & plasmid extraction; DNA extraction, quantification & transformation; PCR; gel electrophoresis; purifications; amplifications; QC testing; NCBI primer design

Lab Operations: SOP authoring; workflow design, testing & implementation; process development and refinement; instrument procurement and maintenance; training of incoming lab staff

Automation & Software: Lab automation and instrument programming (Java / custom languages); Python; C#; scalable process and system design

Safety & Environments: BSL-2 and BSL-3 laboratory practices; ISO-compliant cleanroom construction

RELEVANT EXPERIENCE

Lab Technician / Project Management

2020 – Spring 2022

GenScript — Seattle, WA

- Planned and operated an automated mRNA synthesis production lab; designed, tested, and refined production workflows.
- Authored SOPs for lab operation, procured instrumentation, and trained newly hired lab technicians.
- Partnered with the automation team to program instruments (Java / custom languages) and scale production capacity.
- Performed plasmid design, cell cultivation, plasmid extraction, purifications, quantifications, and QC testing.

Supervisor: Kristine Bielecki

Undergraduate Lab Technician

Fall 2018 – Summer 2019

Brelsfoard Lab (Parasitology), Texas Tech University — Lubbock, TX

- Researched Wolbachia-mediated infection in disease and parasite vectors under BSL-2 conditions.
- Maintained insectary and lab; identified specimens; ran DNA extractions, gel electrophoresis, and PCR.
- Designed primers using NCBI tools and databases.

Supervisor / PI: Dr. Brelsfoard

Wildlife Technician

Summer 2019 – Summer 2020

Quail-Tech Alliance, Texas Tech University — Lubbock, TX

- Cared for and logged several hundred captive birds across longitudinal breeding studies (animal husbandry).
- Conducted independent field work: trapping, tagging, and tracking wild birds via radio telemetry.
- Installed and maintained monitoring equipment (songmeters) and supported automation of acoustic monitoring.

Supervisor: Rowdy White · PI: Dr. Brad C. Dabbert

ADDITIONAL EXPERIENCE

Software Developer

2024 – Winter 2026

Mist and Mirror (indie games studio, remote — Netherlands)

- Built game software and initial architecture from scratch (C#, Python, GDScript); coordinated schedule and design priorities with a small team and management.

Operations Management

Spring 2022 – 2023

Skyline Celestial (aerospace startup) — San Francisco, CA

- Managed operations for globally distributed staff; set agendas and coordinated cross-team design and procurement.
- Oversaw ISO-compliant cleanroom construction, contractor vetting/hiring, and budget review.

Supervisor: Geffen Avaram

EDUCATION

B.S. in Biology, specialization in Ecology & Environmental Biology; Minor in English — *Texas Tech University*

References available upon request.