

**CONTACT**  
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# Cole Wilson

## LABORATORY TOOLS

Pipetting: Over 4 years of professional experience aliquoting <10 µL with pipettes, including repeater and multichannel.

ATF software (Roche): Analyzed data in ATF software and Excel, creating PCR curves for presenting data.

QuantStudio 5 & 3 and ABI Fast DX (Thermo Fisher): Operated real time qPCR system and Design and Analysis software version 2.1.0.

DNA and RNA extraction and purification with COBAS 8800 (Roche) and KingFisher Flex (Thermo Fisher) and QIAmp Viral RNA minikit (Qiagen).

Nanodrop 2000 (Thermo Fisher): Quantitated protein concentration via spectrophotometry.

Gas chromatography (Shimadzu): Quantified percent gas composition in sludge samples.

High Performance Liquid Chromatography (Shimadzu): Quantified volatile fatty acid composition in wastewater sludge samples.

Microsoft Excel and Office: Analyzed data and presented with Excel, Word and PowerPoint. Analyzed data by creating spreadsheets and using formulaic equations.

Media Preparation: lysogeny broth and acetate media.

Aseptic technique and cell culturing: with bacteria and plant cells.

Droplet digital PCR (Bio-rad): Generated, analyzed and presented data.

## EDUCATION

Bachelor of Science in Molecular Biosciences and Biotechnology, Arizona State University, May 2018

## ACADEMIC LABORATORY EXPERIENCE

Research Assistant                      May 2017-May 2018

The SWETTE Center for Environmental Biotechnology,  
The Bidesign Institute at Arizona State University.

## PROFESSIONAL EXPERIENCE

### Scientist I

Roche  
Research and Development  
Solution Integration and Services  
PCR-IVD-RED  
June 2021-March 2022

Developed bacterial vaginosis multiplex assay for COBAS 8800 instrument through feasibility and stability experiments with Candida strains. Analyzed qPCR and ddPCR data on ATF and Excel in BSL-1 and BSL-2 laboratories.

### Scientist I

Thermo Fisher  
Research and Development  
Specialty Diagnostics Group  
Quality Control  
November 2020-June 2021

Developed SARS-CoV-2, Flu A and Flu B multiplex assay testing kit. Performed DNA extraction, qPCR and stability testing. Analyzed qPCR data on Design and Analysis and Excel. Also completed qPCR testing and reviewed reports for cGMP in the quality control department.

### Laboratory Technician

Kyla COVID Testing  
Action Urgent Care  
June 2020-June 2021

Accessioned patient samples for SARS-CoV-2 testing. Also completed testing on Abbott qPCR and antigen testing devices. Reported test results electronically.

### Laboratory Technician

DCH Molecular Diagnostics  
Research and Development  
September 2019-March 2020

Developed molecular diagnostic microfluidic assay real time PCR instrument for respiratory infections including COVID-19. Wrote and executed protocol for live virus.

