Jane Johnson

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# EDUCATION

***Bachelor of Science in Chemical Engineering*** May 2027

***Minor****:* Environmental Engineering

Trine University; Angola, Indiana GPA: 3.60/4.0

**ENGINEERING PROJECT EXPERIENCE**

* Directed successful culture and subculture of a Chinese Hamster Ovarian (CHO) cell line for five generations using aseptic techniques, hemocytometer cell counts, and a Cell Titer-Blue viability assay
* Developed a method for kegging wine to reduce the amount discarded during the wine tasting process
* Pressure drops in a piping system using a venturi and orifice meter
* Prepared and analyzed iodate and sodium sulfite/citric acid solutions for color-changing properties and use as the stopping mechanism for AIChE ChE care competition
* Effect of 5% Nitrogen fertilizer on growth rate of corn

# WORK EXPERIENCE

*Seed Corn Inspector* May 2023– Aug 2023

## Monsanto; Hillsdale, MI

* Performed daily visual inspections for the health and development of numerous cornfields
* Collected and analyzed field data on soil conditions, pest presence, and plant vitality to inform precision agriculture strategies and boost crop yields
* Compiled report data and performed a comparative analysis to identify trends and potential problems

*Engineering / Quality Control Assistant* May 2022 – Aug 2022

## Metal Technologies Inc.; Auburn, IN

* Streamlined chemical inventory tracking and usage analysis using Excel, enhancing data accuracy and reducing material waste
* Completed product inventories and reported inventory level to supervisor
* Conducted laboratory tests on manufactured metal products including:
* Tensile testing for material strength and ductility assessment
* Micro sample analysis and certification to verify metal composition
* DISA calibrations and iron filling analysis to maintain equipment and ensure product quality

# TECHNICAL SKILLS EXPERIENCE

***Computer Skills***: MATLAB, Microsoft Office Word, PowerPoint, Microsoft Excel, COMSOL, ChemCAD

***Laboratory Skills***: Titration, spectrometers, qualitative analysis, distillation, centrifuges, and separation devices

***SAChE Certifications***: Hazards and Risk: Intro to Pressure Protection, Explosion Hazards, Lab Safety, Hydrogen

Fueling Station Incident Response

# HONORS, AWARDS, & ACTIVITES

* Trine University Student Ambassador
* National Chemical Engineering Honor Society, Omega Chi Epsilon, member
* Trine University Chemical Engineering Chair Tuition Scholarship recipient
* Trine University Student Athlete Advisory Committee member
* Michigan Intercollegiate Athletic Association Honor Roll Student Athlete