NIGEL FU

Research Assistant

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OBJECTIVE:

Motivated and detail-oriented third year student with a strong academic background in chemical engineering, seeking a Research Assistant position to apply analytical, problem-solving, and technical skills in a collaborative research environment. Passionate about data analysis and process design, with experience in Python, Ansys and process control.

WORK EXPERIENCE:

UNDERGRADUATE RESEARCH ASSISTANT
May 2024 - Present

University of Toronto, Toronto, ON, Canada

- Assisted in experimental research on [e.g., heat transfer, reaction kinetics, or material synthesis], collecting and analyzing data to improve process efficiency.
- Utilized MATLAB and Python for data analysis, modeling chemical processes, and visualizing trends
- Conducted laboratory experiments following safety protocols, maintained lab equipment, and recorded results for publication.

PROCESS ENGINEERING INTERN
May 2023 - August 2023

XYZ Corporation, Scarborough, ON, Canada

- Supported the design and optimization of chemical processes by simulating fluid dynamics using ANSYS Fluent.
- Assisted in troubleshooting operational issues in manufacturing, analyzing process data to identify inefficiencies.
- Collaborated with a multidisciplinary team to evaluate process improvements, enhancing safety and sustainability.
- Conducted material and energy balance calculations to assess process feasibility and optimize resource utilization.

EDUCATION:

BACHELOR OF APPLIED SCIENCE IN CHEMICAL ENGINEERING
September 2022 - Present

University of Toronto, Toronto, ON, Canada

SKILLS:

- Process Simulation: Aspen Plus, ANSYS Fluent, MATLAB
- Programming: C, Python
- Data Analysis & Visualization: Excel, MATLAB, Python
- Heat & Mass Transfer Modeling
- Reaction Kinetics & Thermodynamics