

# MAURICE BUKENYA

## Resume

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### OBJECTIVE AND ACHIEVEMENTS

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- To secure a challenging and rewarding technical position and make immediate contribution

#### Achievement Highlights

- Worked to ensure strong and consistent academic performance
- Completed challenging project assignments which have had remarkable big-picture impact

### EDUCATIONAL PREPARATION

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#### Tufts University - Medford, Massachusetts, USA

- Master of Science, Chemical Engineering | GPA: 3.83/4.0 Expected Aug 2018
- Bachelor of Science, Chemical Engineering | GPA: 3.40/4.0 May 2017

#### Relevant Course work

**Biotechnology** - Biotechnology Processing Laboratory, Biomaterials and Regenerative Medicine

**Chemical Engineering** – Transport phenomena, Chemical Separations, Reactor Design, Process Control

**Mathematics and Natural Science** – Partial Differential Equations, Chemistry

### RESEARCH EXPERIENCE

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#### Research Assistant - Nano-biofabrication Laboratory, Tufts University Nov 2015 – Present

*Goal: To synthesize micropatterned opal-structured films for use as sensors, simply and cheaply*

- Investigated fabrication conditions and made optically functional thin films by micromolding
- Characterize films using darkfield microscopy, SEM and UV-Vis reflectance spectrometry

#### Research Technician - Koch Institute, Massachusetts Institute of Technology Jul – Aug 2017

*Goal: To determine the effect of sequencing depth on the quality of RNA-seq data*

- Utilized R and MATLAB to analyse and visualize statistical features of sequenced gene data
- Determined quantification of gene clusters as a more effective means of achieving project goal

#### Engineering Intern - National Institutes of Health (NIH), Bethesda, MD Jun – Aug 2016

*Goal: To promote single cell single bead coencapsulation by minimizing multiple cell capture*

- Applied microfluidic techniques with electrophoresis to improve coencapsulation of single cells and mRNA-coded beads for single cell RNA sequencing

### PROFESSIONAL EXPERIENCE

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#### Intern -Tullow Oil – Kampala, Uganda Jun – Aug 2014

- Offered first-line IT support and developed Excel-based tool for requisitioning printer supplies

### LEADERSHIP ACTIVITIES

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#### Secretary - Biomedical and Chemical Engineering Society at Tufts Aug 2017 – Mar 2018

- Coordinated meetings and resource opportunities for the organization of over 30 members
- Maintained written records and communication channels including social media platforms and email

#### Resident Advisor - Tufts University Aug 2015 – Nov 2016

- Planned and implemented community building programs for 47 residents and acted as student resource

### TECHNICAL SKILLS

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**Laboratory:** Cell culture, IMAC purification, Benchtop Bioreactor operation, soft lithography

**Programming/Design:** MATLAB, R, python, Mathcad, Superpro Designer, Simulink, Excel VBA

### SACHE PROCESS SAFETY CERTIFICATES:

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- Process Safety 101, Chemical Reactivity Hazards, Basics of Laboratory Safety

*Please contact me at [mauricebukeny@gmail.com](mailto:mauricebukeny@gmail.com) for updated resume*