

# Jamie E Heinrich

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**Objective:** Full-time position working in chemical engineering disciplines beginning summer/fall of 2019

## Education:

- Georgia Institute of Technology, Atlanta, GA** **Aug 2015 – Present**
- Candidate for BS in **Chemical & Biomolecular Engineering**; May 2019
  - Dean's List Recognition; cumulative 3.39 GPA
- Georgia Tech Lorraine, Metz, France** **May 2017 – Aug 2017**

## Experience:

- American Chemical Society – Digital Strategy Intern** **May 2018 – Present**
- Leading design optimization of web forum spaces for component groups on the ACS Network
  - Analyzing compliance of branding and security measures present on external Technical Division sites
  - Developing and present best practices in supporting online presence of constituency
- GT Campus Recreation Center – Facilities Assistant** **Aug 2016 – Present**
- First Aid/CPR certified; responsible for EPA procedures throughout facilities
  - Working with team of 4-6 to manage access to facilities, equipment, and patron reservations
- GT Leadership Challenge Course – Course Facilitator** **May 2016 – May 2018**
- Facilitating team-building, communication, problem-solving group activities among varying demographics

## Projects:

- ASPEN Plus System Development: Methanol Production** **Aug 2017 – Present**
- Designing tri-reforming reaction system utilizing heat integration to minimize utilities
  - Determination of economic feasibility; perform profit upper bounds analysis
- ASPEN Plus System Development: Air Separation** **April 2017 – Dec 2017**
- Creation/manipulation of multi-phase system to model air separation into base components
  - Optimization of design parameters and efficiency; data analysis using numerical methods via MATLAB
- Waste to Sustenance – UI/UX Designer** **Jan 2016 – May 2017**
- Grand Challenges project team targeting sustainability; implementing technological solution
  - Developing food inventory app aimed to minimize household waste amongst college students
  - Analyzing demographic response in test households; updating based on user feedback

## Leadership:

- Alpha Chi Sigma – Philanthropy Chair** **Jan 2017 – Present**
- Professional fraternity; students/professionals dedicated to the study of chemical sciences
  - Organizing fundraising and volunteering events in support of Boys & Girls Club of Metro Atlanta
- Engineers Without Borders GT, Uganda Water Distribution Project** **Feb 2018 – Present**
- Member of Technical Committee; designing piping network using WaterGEMS software
  - Analyzing topography of Oloo; manipulate tap/tank features according to financial budget
- GT Grand Challenges, Living & Learning Leadership Community (top 8% of class)** **Aug 2015 – Present**
- Selective community of 110 students solving world problems by means of iterative solution design
  - Emphasis on developing leadership, ideation, communication, innovation, humility

## Skills:

### **Chemical Engineering**

- Distillation, Adsorption, Mass/Energy Balances, Reactor Design, Process Control, Economic Analysis

### **Laboratory**

- Statistical Data Analysis, Mass Spectroscopy, IR Spectroscopy, Compound Synthesis, Chromatography

### **Computer**

- ASPEN Plus, MATLAB, Simulink, Python, WaterGEMS, HTML, Microsoft Excel

### **Communication**

- English (native), French (basic), Customer Relations, Mentorship, Data Presentation