

Sadah Mohammed Ahmed

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OBJECTIVE

A career-oriented graduate chemical engineer seeking position that reflects my experience, skills, and personal attributes.

SKILLS

Research & Projects

University (academic)

- Senior year capstone project Fall 2013. Design of LNG plant: I developed a process flowsheet diagram, conducted material and energy balance with aid of process simulation tool (HYSYS), equipment design and lastly, I conducted a P&ID and HAZOP study to enhance the safety of the LNG process
- Process Systems Eng. Project: Design of post-combustion CO₂ capture by physical absorption using Ionic liquid. The project detailed the design steps and component definition in Aspen plus v10. Furthermore, optimization study to enhance the process performance and lastly, a cost analysis was performed by using Aspen process economic analyzer

Computer Skills

- Microsoft Office: Word, Excel, PowerPoint, Visio and Outlook
- Process simulation software: Aspen Plus and HYSYS

Communication, Teamwork & Self-Management Skills

- Strong analytical and innovative problem solver
- Excellent social and communication skills (both verbal and written)
- Thorough and attentive to detail
- Excellent interpersonal and communication skills

EDUCATION:

Masters of Engineering - Process Systems Engineering

[2016 – 2019]

University of Regina, Regina, SK, Canada

Project: Aspen Plus process simulation model for post-combustion CO₂ capture by physical absorption using Ionic Liquid

Scholarships & Awards

- Graduate Studies Scholarships (GSS) – 2017

Training, certificate & licenses

- Laboratory Safety Training Certificate (WHMIS) – University of Regina – 2016

Bachelor of Science -Chemical Engineering

[2009-2014]

Qatar University (ABET accreditation), Doha, Qatar

Scholarships & Awards

- Scholarship to pursue B.SC. Degree in chemical engineering – 2009

RELEVANT WORK EXPERIENCE:

Industry Liaison Co-op Student

Research Office, University of Regina – Regina, SK, Canada.

[Sep 2018 – Dec 2018]

- Assisted in planning event programs
- Created promotional material and documents for attendees
- Supported the draft of grant applications for funds
- Selected and coordinated venues and vendors
- Marketed the event to potential attendees and communicating event details to confirmed attendees and provided support on event days
- Discussed potential research activities with partners and facilitating session around research partnerships

Research Engineer

[Sep 2014 – April 2016]

Gas Processing Center, University of Qatar – Doha, Qatar.

- Applied thermodynamic model Electrolyte-NRTL to fit VLE data for CO₂-amine-H₂O systems in Aspen plus
- Used Aspen plus v9.0 to model and simulate CO₂ capture process using MEA amine
- Conducted sensitivity analysis to study the performance of the MEA amine and chose the best operating conditions
- Optimized the process by applying heat integration to minimize the heat consumption
- Applied Aspen process economic analyzer for cost analysis.

ADDITIONAL INFORMATION

Volunteering:

- Volunteered to assist new students with registration and answering questions at the new student orientation at Qatar University in Doha, Qatar – 2014

Interests:

- Reading, swimming, E-commerce and traveling

REFERENCES

Amr Henni, Ph.D., P.Eng.
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