Email: Baaqeel@kfupm.edu.sa
Contact: +966-505936391

Dr. Hassan Baaqeel

Assistant Professor

Department of Chemical Engineering
King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary:
Dr. Hassan Baaqeel's primary research is in process system engineering which looks into integrating sustainability, reliability, and safety in chemical process design using cutting-edge design tools and approaches such as process integration, process simulation, process intensification, and mathematical optimization. The applications of interest to Dr. Baaqeel includes stranded gas monetization, water-energy nexus, and hydrogen production.

Education:

PhD, Chemical Engineering, Texas A&M University, College Station, USA, 2018.
MSc., Chemical Engineering, University of Manchester, UK, 2010. Master of Science in Advanced Process Design.
MBA, Project Management, Open University Malaysia, 2009.
Graduate Certificate, Entrepreneurship, Mays Business School, Texas A&M University, 2018.
BSc., Chemical Engineering, University of Alabama, August 2001, with a minor in Economics.

Distinguished Projects

- Project title: "Process Modelling, Simulation and Techno economic Assessment of Dual Hydrogen and Methanol Production Process using State-of-Art Syngas Generation Technologies", Dhahran, Saudi Arabia, Role:Co-PI

- Project title: "Sustainable Process Design Approach for On-Purpose Butadiene Production and Intensification", Dhahran, Saudi Arabia, Role: PI.

Research Summary

- Number of Published Papers: 11
- Citations : 90
- H-Index : 4
- Number of Patents : 0
- Book Chapters: 0

Award and Recognitions

- Certified Energy Manager, Association of Energy Engineers (AEE), 2015.
- Certified Gas Processing Engineer, J. M. Campbell, 2004.
- Best Paper Award, 15th GCC Gas Processing Association Conference, Bahrain, 2007
- Innovation Award, Saudi Aramco, 2007.

Skills and Expertise

- Chemical Process Mathematical Modelling: GAMS, LENGO, MATLAB.

- Chemical Process Simulation: HYSYS, ASPEN, PROSIM

- Mass & Energy Integration Techniques and Software: Utility, Steam.