Julie Bellfy

Chemical Engineer

Philadelphia, PA - Email me on Indeed: indeed.com/r/Julie-Bellfy/11326f9fd5b8f87f

Highly motivated chemical engineer with excellent communication and advanced technical skills looking for entry-level engineering role.

WORK EXPERIENCE

Systems Engineer

Trane - King of Prussia, PA - May 2011 to Present

- Use strong organizational and communication skills to develop long-term customer relationships with assigned accounts.
- Design new heating, cooling, and ventilation systems
- Acted as project manager and team leader to achieve goals
- Determine project needs, constraints, and responsibilities to meet all of the customer's HVAC system design and installation requirements.
- Provide knowledge and consultation in the form of developing HVAC system related solutions for the customer's problems, including financial and performance-based considerations.
- Assist customers in answering technical questions on design and implementation of HVAC systems, Trane
 products, and system application alternative, BAS, building controls, installation, operation, maintenance, and
 problem resolution
- Assist in the operation and start-up of HVAC systems
- Develop and execute HVAC system designs to address issues of system selection, efficiency, and cost to the client
- Integrated efforts with specialists in other technical disciplines to design HVAC systems for process and cleanroom applications

Co-op Engineer

Merck - Elkton, VA - May 2010 to December 2010

- Mechanical and Chemical Engineering position in Utilities Department at pharmaceutical manufacturing chemical plant
- Audited energy consumption of various systems throughout plant site, self-managed projects and tasks
 Developed HVAC model Accurately modeled current and future states' energy consumption of site HVAC/
 Air Handling units. Required extensive MS Excel and Visual Basic programming
- Provided technical support for the operation of HVAC systems around plant site.
- Future energy consumption model
- o Integrated future and current projects to analyze future energy consumption of plant site
- o Future projects included: Solar, Wind, and Biomass
- o Developed independently with supervision and feedback from superiors

Research Intern

Cornell University - Ithaca, NY - May 2009 to August 2009

- Research experience for undergraduates (REU) in Electrical & Computer Engineering Department at Cornell University
- Independent Research Project performed under the super vision of a professor and doctoral student
- · Laboratory Techniques utilized included:

- o Photolithography
- o Atomic Layer Deposition
- o Electron Beam Evaporation
- o Furnace Annealing
- Project Title: Cyclic Charging of Redox Markers in MOS Capacitors
- o Studied the effects of integrating redox molecules into flash computer memory
- Research presented at The 2009 NNIN REU Convocation
- Listed as an author for the published manuscript, "Integration of Self-Assembled Redox Molecules in Flash Memories" in the scholarly journal IEEE Transactions on Electron devices

EDUCATION

BA in Chemical Engineering

Villanova University - Villanova, PA 2007 to 2011

SKILLS

EMIT certification, project management, chemical engineering, ASPEN, Mathcad, Auto-cad