

Shirley Banh

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Objective To obtain an internship within the chemical and materials department with a special interest in research and development

Education Bachelor of Science, Chemical Engineering Expected Graduation Date: May 2017
Minor, Nanotechnology
The Pennsylvania State University, University Park, PA

Relevant Courses

Phase and Chemical Equilibria Process Fluid Mechanics
Process Heat Transfer Chemical Thermodynamics
Properties and characterization of Electronic and Photonic Materials
Thermodynamics, Microstructure and Characterization of Polymers

Experience **Materials Intern**

NASA Glenn Research Center, Cleveland, OH (Summer 2015)

- Collected data from newly synthesized Polyimide aerogels using functionalized MCM-41 silica crosslinker
- Collaborated with team members and provided support during synthesis of samples
- Participated in REU symposium with University of Akron, Case Western Reserve University and NASA's materials branch
- Presented findings orally and written to peers and colleagues

Undergraduate Researcher

NASA Pennsylvania Space Consortium, Abington, PA (January 2014 - May 2015)

- Taught students of necessary preliminary knowledge and techniques used in recording radio signals
- Researched objects to be studied for further observations, such as quasars, Smith Bubble
- Conducted surveys on the 40 foot and 20 meter telescope
- Analyze collected data from previous projects and compared with known data from Leiden Argentine Bonn Survey database

Activities **Alpha Phi Omega Fraternity**, August 2015 – Present

Webmaster, January 2016 – Present

- Assisting transition onto a web management platform
- Post pictures and updates on the fraternity on social media

Active Member, August 2015 – Present

- Volunteer local service events around campus, community and our local Boy Scout troop
- Organize Astronomy lesson plan for local Boy Scout troop with Scouting Chair