

The innovation workshop that I attended was talking about gas cylinders, high-vacuum systems, and pumps. I was inclined to go to this workshop because it was required by my FSE class. I learned a decent amount from this workshop which will further help me in my career as an ASU student. This was a well put together workshop that met all my expectations and was very engaging in the material provided. Overall this experience has made me want to attend more workshops in the future.

During this workshop, we started with gas cylinders. I learned that a gas cylinder is a form of container that stores gasses above atmospheric pressure. Gas cylinders can be used in labs to have certain gasses be present or to allow for pressure change to occur in certain experiments or trials. Another use of gas cylinders is in the trade space with gasses being released to allow for welding. These gasses are also used in grocery stores in the form of helium to fill balloons. I will be able to use this knowledge in my future school career through my future labs and self made experiments. I can also use these in my future career with welding and also through future projects with my future employer. I feel this technology is mostly used in labs for testing and in the trade force. I would like to continue my career in the trade force as of now but I do not see it being a long term thing for my future. With this being said I do not intend for this technology to be part of my future. However I do feel very comfortable with this technology. I might be using this technology in future classes that could possibly be using metal that needs to be curated into something.

Another technology discussed during this workshop was high vacuum systems. A high vacuum system is a system that can add great pressure or remove certain things from a certain area. High vacuum systems are used in labs and also in scientific research. I learned that these machines can allow for certain conditions to be met. For example, let's say a reaction can not have oxygen in it. The high pressure vacuum can remove the oxygen from the testing area and leave it with whatever is needed for the certain reaction. I might be using a high pressure vacuum in my future school career but in my future career it is not likely that I will be using this technology. In my school career this skill can be used in internships with labs and also with school labs. This skill will be needed due to certain conditions needing to be met to allow for certain things to happen or be tested. This technology is used mostly in the medical field and testing field to test products. This is a field I am not completely interested in, however I am open to learn and test out the field more. I feel more comfortable with this technology and I hope to at least use it in the future of my school career a little bit.

The final technology that we learned about in this workshop was pumps. Pumps are a device that raises, transfers, delivers, or compresses fluids or that attenuates gasses especially by suction or pressure or both. These skills I have used a little bit in chemistry lab however I do see this technology being used in my future school career. However I do not see this technology in my future career. I see this technology being

used in any of my future labs in my school career and maybe some internships. This technology is mostly used in the medical, testing, and technological fields. I do not wish to work in this field as of now however, I might be more interested in these fields with more experiences with it. I left this workshop feeling more confident with the technology and I am ready to use these skills with anything that is needed in the future.