

## *Department of Physics and Astronomy*



### **Summer 2015— Dylan Smith**

Accelerator operators at the Purdue Rare Isotope Measurement Lab (PRIME Lab) play a critical role in the lab's operations and occasionally take part in technical projects. They are the first to see measurements taken by the particle accelerator and must determine whether the data is accurate and the accelerator is functioning properly, or irreplaceable data samples can be lost. Accelerator operators may take part in projects such as maintaining the facility, repairing equipment and performing maintenance on the tandem accelerator. The accelerator outputs data every five to fifteen minutes, so the operators do typically have an amount of down time during their shift. A variety of work shifts are available from lunch shifts for those with breaks between classes, to night shifts for those with an 'adjusted' sleep cycle.

Go on youtube and search Pfeiffer Vacuum Pump Rebuild if you'd like to see some of the work that I've been doing recently .