

Powder X-ray Diffraction Facility
Room 503 John M. Palms Center for Graduate Science Research
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**You must hand your sample to a person so that it can be logged in.
You may not simply leave your sample. It will not be run if it is not logged in.
You must pick up your sample when you pick up your data.**

Name: _____ **Date:** _____
Fund Number: _____ - _____ **Phone #:** _____
E-mail: _____ **Research Group:** _____
Sample ID: _____ **Department:** _____
Sample Composition: _____

Unless otherwise agreed upon, the following conditions will be used to collect data:

Standard Scan:	Two theta range:	10-70 °2θ
	Step size:	0.04°
	Scan rate:	1°/min

***We cannot run at 0 °2θ and we will only run at 1 °2θ if necessary.**

The cost is \$60 for the first hour/standard scan. \$30 for each additional hour of data collection.

Samples must be in powder form. (unless otherwise agreed upon) Typically 200 mg of sample is needed to fill the large sample holder. Smaller sample sizes can be run in smaller sample holders. The best data are obtained when enough sample is supplied to fill the large sample holder.

As part of the data collection we can:

- 1) determine the peak positions and print them
- 2) overlay a known phase onto the diffraction pattern and print
- 3) print the diffraction pattern

The charge for data collection does not include:

- 1) analyzing the X-ray diffraction data
- 2) explanations of how PXRD works

If you are unsure about what information powder X-ray diffraction can supply or how it works, please see the downloadable PDF file on powder X-ray diffraction.