

**Service rates of the laboratories in Planetary Spectroscopy Groups
(microbeam Raman, FT-IR, LIBS, XRF, and Raman imaging)**

The service rates for measurements made in the laboratories of Planetary Spectroscopy Group, including microbeam laser Raman, FT-IR, Laser induced breakdown spectroscopy (LIBS), XRF, and laser Raman imaging system are listed below. The total fee will be calculated per hour basis, plus 0.5 - 1 hour for system start-up and calibrations.

The collected lab fees from outside users will be used to cover the cost for the warrantee and the service contracts of our major equipments, the purchase of accessories and ancillary laboratory minor equipments, and the expendable supplies.

The payment can be made through fund transfer among grants or departments at Washington University, and by check from outside entities.

Graduate students and research staffs of EPSc & McDonnell Center and of other departments at WUSTL, who desire to have long-term usage of these spectroscopic labs (except Raman Imaging) for their research projects, are welcome to be trained by our lab staff. A minimum hourly rate will be calculated toward their works in the labs after they have demonstrated a satisfactory level of operating safety and skill.

A. Microbeam Laser Raman Spectrometer *KOSI NRXN-E-532*

Per hour rate		Trained User	By our service
EPSc & McCenter		\$20	\$50
Other Departments of WUSTL		\$35	\$80
Other Universities		\$40	\$100
Commercial Use			\$150

**B. FT-Infrared Spectrometer *Nexus 670* with four modes of operation:
transmittance, attenuated total reflectance, total and diffuse reflectance**

Sept 2018 version

Per hour rate		Trained User	By our service
EPSc & McCenter		\$20	\$50
Other Departments of WUSTL		\$35	\$80
Other Universities		\$40	\$100
Commercial Use			\$150

C. Laser Induced Breakdown Spectrometer

Per hour rate (w/out PEACH)		Trained User	By our service
EPSc & McCenter		\$20	\$50
Other Departments of WUSTL		\$35	\$80
Other Universities		\$40	\$100
Commercial Use			\$150

D. Hand-held XRF spectrometer *INNOV-X-System-DELTA*

Per hour rate		Trained User	By our service
EPSc & McCenter		\$20	\$50
Other Departments of WUSTL		\$35	\$80
Other Universities		\$40	\$100
Commercial Use			\$150

E. Laser Raman Imaging system *Renishaw InVia* with 325 nm, 442 nm, 532 nm, 633 nm, 785 nm excitations

Per hour rate			By our service only
EPSc & McCenter			\$80
Other Departments of WUSTL			\$100
Other Universities			\$150
Commercial Use			\$200