

Solid State and Elemental Analysis Unit (SSEA Unit)

1. Rates for Access to Powder XRD, and X-ray crystallography surface analysis by XPS and ToF-SIMS, and Radiocarbon analysis.

Rates are in AU\$, ex-GST, current for 2020-2021 inclusive. Contact Dr Yu Wang for XRD annual subscription enquiries.

	Internal Rates^a	Institutional Rate^b (ex-GST)	Commercial Rate^c (ex-GST)
Training, all instruments^d	Free	Free	Free
Panalytical MPD (Cu) Bulk Powder X-ray Diffractometer Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
Panalytical Aeris Benchtop (Cu) Bulk Powder X-ray Diffractometer Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
Panalytical MRD (Cu) X-ray diffraction for thin-film, grazing angle, stress, texture measurements Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
Panalytical Empyrean 1 (Cu) X-ray diffraction for thin-film, grazing angle, stress, texture measurements Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
Panalytical Empyrean 2 (Co) Bulk Powder X-ray Diffractometer Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$50/hour	Trained User \$150/hour Service Rate \$250/hour
Panalytical Empyrean 3 (Ag) Bulk Powder X-ray Diffractometer with position sensitive detector Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$50/hour	Trained User \$150/hour Service Rate \$250/hour

	Internal Rates^a	Institutional Rate^b (ex-GST)	Commercial Rate^c (ex-GST)
Bruker D8 thin-film XRD (Cu) 5kW rotating anode X-ray source with 2D detector and mapping stage for HRXRD, RSM and 2DXRD Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
Rigaku Smartlab thin-film XRD (Cu) 9kW Rotating anode X-ray source for HRXRD, fast RSM Contact Yu Wang yu.wang@unsw.edu.au	Trained User \$30/hour	Trained User \$60/hour	Trained User \$150/hour Service Rate \$250/hour
CRYSTALLOGRAPHY Bruker Kappa Apex (Mo) Single-crystal X-ray diffractometer Bruker D8 Quest (Mo) Single-crystal X-ray diffractometer Contact Mohan Bhadbhade m.bhadbhade@unsw.edu.au	Co-authorship Rate \$130/sample Data collection only \$80/sample Structure Solution of Synchrotron Data \$50/dataset	Service Rate \$130/sample	Service Rate \$450/sample
Mikropack NanoCalc 2000 UV-Vis-NIR Contact Yu Wang yu.wang@unsw.edu.au	Trained User Free	Trained User Free	Trained User Free
SURFACE ANALYSIS Thermo Escalab 250Xi X-ray Photoelectron Spectrometer (XPS) Contact Bill Gong b.gong@unsw.edu.au	Service Rate \$70/hour Trained User \$40/hour	Service Rate \$172.50/hour	Service Rate \$287.50/hour
IONTOF Time of Flight Mass Spectrometer (ToF-SIMS) Contact Bill Gong b.gong@unsw.edu.au	Service Rate \$70/hour Trained User \$40/hour	Service Rate \$172.50/hour	Service Rate \$287.50/hour
Alpha-Step D-600 Stylus Profiler Contact Sonia Yin songyan.yin@unsw.edu.au	Trained User Free	Trained User Free	Trained User Free
Polos Spin150i spin coater Contact Sonia Yin songyan.yin@unsw.edu.au	Trained User Free	Trained User Free	Trained User Free

	Internal Rates^a	Institutional Rate^b (ex-GST)	Commercial Rate^c (ex-GST)
RADIOCARBON			
Contact Adam Sookdeo a.sookdeo@unsw.edu.au	Service Rate Sample preparation (if required) \$100/sample Accelerator mass spectrometry \$100/sample	Service Rate Sample preparation (if required) \$150/sample Accelerator mass spectrometry \$150/sample	Service Rate Sample preparation (if required) \$150/sample Accelerator mass spectrometry \$150/sample

(a) Internal rate applicable to all UNSW account holders (including affiliated institutes), ADFA and also LIEF Partners.

(b) Institutional rate is applicable to all other universities, and government institutions including ANSTO, and CSIRO.

(c) Commercial rate covers all other non-government users.

(d) Training on SSEA Unit equipment is **free for any user** with the exception of ICP where a charge is applied to cover the cost of argon used during training.

2. Bulk Elemental Analysis Rates: ICP, XRF, LC-OCD, IC, combustion analysis for DOC, DIC, and organic solids

Elemental analysis is usually charged per sample. The rate can vary significantly depending on the number of samples, the type of sample preparation, and the number of analytes requested.

A separate pricing sheet is available for services from the **ICP Laboratory** (sample grinding, microwave acid digestion, ICP-MS, ICP-OES, LC-OCD, IC, combustion analysis for DOC, DIC). For users that have specific enquiries about services from our ICP Laboratory please contact Rabeya Akter (r.akter@unsw.edu.au) or Dorothy Yu (d.yu@unsw.edu.au).

A separate pricing sheet for services from the **XRF Laboratory** (XRF and micro-XRF mapping, rock crushing, pressed pellets, combustion analysis of solids). For users that have specific enquiries about services from our XRF Laboratory please contact Irene Wainwright (i.wainwright@unsw.edu.au) or Helen Wang (huixin.wang@unsw.edu.au).

3. Research Grant Budgets

When an **in-kind** contribution is requested in your application, please use **\$175/hour** to cover MWAC salaries, costs for power, repairs etc provided by the University. If costs are on a per sample basis, assume 1 hour per sample.

4. Enquiries

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