

Solid State and Elemental Analysis Unit (SSEA Unit)

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

Rates are in AU\$, ex-GST, current for 2018-2019 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 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
Bruker D8 thin-film XRD (Cu) 5kW rotating anode X-ray source with 2D detector and mapping stage for HRXRD, fast 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

	Internal Rates^a	Institutional Rate^b (ex-GST)	Commercial Rate^c (ex-GST)
Rigaku Smartlab thin-film XRD (Cu) 9kW Rotating anode X-ray source for HRXRD 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
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 Outi Mustonen o.mustonen@unsw.edu.au	Trained User Free	Trained User Free	Trained User Free

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

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

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

(d) Training on all SSEA Unit equipment is **free for any user**. The exception is for 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, solids by LECO

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, rock crushing, pressed pellets, LECO 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 Sarah Kelloway (sarah.kelloway@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.

4. Enquiries

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