



1. Overview

Version	1.1
Policy Name:	Research Services - Policy and Schedule of Fees.
Contact Officer:	School Manager
Date of Next Review:	December 2010

Agricultural and laboratory facilities used by the School for its various research activities must be maintained and serviced on a regular basis. To ensure that the necessary funds are available, this policy aims to distribute the cost of using and servicing these facilities in a manner that is fair and equitable. For some facilities (but at this stage not all), this policy also provides a means by which the school is able to generate a pool of funds for the purchase of consumables. To a large extent, the success of this policy depends on researchers providing appropriate projects codes from which to recover costs.

The fees documented in this schedule are formulated to draw a balance between the real cost of use and maintenance and the limited funds that may be available from research budgets. Where items of equipment require a certain average level of funding to keep them operational, this will be the value to be recovered from the users. In the case of recovering costs relating to gas purchases and cylinder rental, the school will on-sell to the main consumers of gas on both campuses based on the data available (eg, school finance records and local knowledge of gas usage).

2. The Policy

- 2.1 The School of Land, Crop and Food Sciences will recover costs associated with the use of facilities, equipment and consumables, on a user-pays basis.
- 2.2 For some independently funded units run by the School, the fees will also be used to fund the salary costs of the staff operating those units.
- 2.3 The school operates over two campuses with equipment and services located at both. The fees, as far as possible, will be equivalent no matter the location of the facility.
- 2.4 For budgeting purposes and/or for booking of any of the school's facilities, please contact the facility supervisor or the relevant Technical & Scientific Manager.
- 2.5 The schedule of fees contained herein represents most facilities available to research staff at Gatton and St Lucia. Other facilities and related fees will be added progressively.
- 2.6 This policy and schedule of fees will be reviewed and updated annually, or as required.



Table 1: General Facilities Access Fees

These fees are applicable for the period: January-December 2010		
Facility (St Lucia)	Hartley Teakle Building	Charging rate
Analytical Services Laboratory (Inorganic)	N122	\$50 per person per year
Analytical Services Laboratory (Organic)	N124	\$50 per person per year
Food Chemistry Laboratory	N413	\$100 per person per year
Food Science laboratories	N402, N404 and N409	\$50 per person per year
Food Microbiology Laboratories	N417 and N205	\$50 per person per year
Molecular Genetics Laboratory	N321	\$50 per person per year
Soil Chemistry Laboratories	N212, N213, N225, and N226	\$50 per person per year
Facility (Gatton)	Location	Charging rate
Central Analytical Laboratory (CAL)	John Mahon Building - Stage 1 upstairs	\$50 per project per year
Plant and soil research laboratory Precinct	Plant Protection Building 8107 rooms 121-131	\$50 per project per year
Entomology laboratory and preparation Precinct	Plant Protection Building 8107 rooms 104 - 114	\$50 per project per year
Postharvest Facility	Building 8419	\$50 per project per year
Tissue Culture Laboratory	Building 8103	\$100 per project per year
Soil/Chemistry Laboratory Precinct	Plant Industries Building 8111 rooms 208-214	\$50 per project per year
Analytical Molecular Biology Precinct	Plant Protection Annex, Building 8166	\$100 per project per year

These are to ensure that there are consumables (paper towel etc) and some basic items (scalpel blade removers etc) available in the labs.

NOTE: For a wide range of research projects where the general equipment and facilities are to be used as part of the research project (and the fee per sample is not applicable), then an access fee per year for each project using the facility and its equipment will be applied.



Table 2: General Equipment (Basic Laboratory Equipment Fees)

These fees are to ensure that general lab equipment is maintained and a fee based on hours of use will be applied.

These fees are applicable for the period: January-December 2010		
Equipment (St Lucia)	Location	Fee
Drying Ovens (Analytical Services)	N118	\$5/1 st day then \$1/d there-after
Freeze Dryer	N409	\$10 per batch
Grinders	N110	\$10 per hour
Muffle Furnaces	N206	\$2 per hour or \$30 per day
Autoclave (Food Science)	N417	\$5 per load
Refrigerated Centrifuge (Food Science)	N417	\$5 per load
Differential Scanning Calorimeter (DSC)– N402	N402	\$10 per batch
Texture Analyser – TATX2 – N402	N402	\$5 per batch
Rapid Viscosity Analyser (RVA) – N402	N402	\$10 per batch
Microfluidiser – N409	N409	\$5 per batch
Centrifuge	N202	\$5/ load
Pressure plate apparatus	C209	\$5/ sample, (\$12 /sample with prep)
LICOR photosynthesis System	N225	Photosynthesis \$15/day. Soil and other methods \$20/day.
Autosampler pH/EC	N225	\$1/sample
Sonifier	C210	\$5/sample
Equipment (Gatton)	Location	Fee
Drying Ovens (large walk –in size)	Soil and Plant annex	\$1.00 per hour
Drying Ovens (bench top)	Chemistry laboratory	\$5/1 st day then \$1/d
Autoclave (large)	Soil and Plant labs	most runs have no charge
Autoclave	Tissue culture lab	\$10 per load
Freeze Dryer	Chemistry Laboratory	\$10 per day
Muffle Furnaces	Chemistry Laboratory	\$2per hour or \$30 per day
Grinders (assorted sizes - soil and plant)	Soil and Plant annex	\$10 per hour
Centrifuge	Central Analytical Laboratory	\$5 per load
Neutron Probe	Crop Research Unit	Per yr: \$250.00 level 1, \$400.00 level 2
Coolrooms(temp. from 0°C to 40°C)	Postharvest facility	\$10 per week per cool room
Seed processing equipment (assorted)	Seed Annex (client operator)	\$50 per hour + GST
	Seed Annex (our operator)	\$80 per hour + GST

Table 3: Analytical Service Fees (Standard Analysis Charges)

For analyses that use standard established methods a fee per sample¹ will apply.

These fees are applicable for the period: January-December 2010			
ST LUCIA	Analytical Services (52002) or (51110)		
Instrument	Analysis type and Sample	Level 1	Level 2 ²
ICPOES	Prepared sample (filtered) - standard 15 element suite	\$9.00	\$12.00
	Sample requiring grinding, digestion and extraction – standard 15 element suite ³	\$17.00	\$22.50
ICPMS	Prepared samples - Addition of IS +1 metal	\$10.00	\$10.00
	Additional metals (each)	\$1.50	\$1.50
	Sample requiring grinding, digestion and extraction, 1 metal only. ³	\$20.00	\$25.00
CNS Analyser	C & N biological and soil samples (prepared)	\$9.00	\$13.00
SEAL Autoanalyser, UV/Vis detection.	First assay - Cl, NO ₃ , NH ₄ , PO ₄	\$7.00	\$8.00
	Additional assay on sample.	\$4.00	\$5.00
	Sample requiring grinding, digestion and extraction, first assay. ³	\$16.00	\$18.00
Gas Chromatography GC-MS	GC injection - autosampler	\$12.00	\$15.00
	GC - VFA	\$12.00	\$17.00
	GC - FAME	\$20.00	\$22.00
	GC - Gas analysis	\$10.00	\$12.00
	GC-MS injection	\$14.00	\$20.00
	GC-MS injection and up to 6 MS library searches.	-	\$30.00
Liquid Chromatography HPLC LC-MS	HPLC injection	\$17.00	\$20.00
	LC-MS injection	\$19.00	\$20.00
	LC-MS run and data processed.	-	\$25.00
General Organic Analysis	NDF, lignin	\$10.00	\$18.00
	ADF	\$11.00	\$19.00
	Tanin	\$10.00	\$20.00
	Simple sugars, structural hydrocarbs	\$10.00	\$16.00
	Both forms carbohydrates	\$14.00	\$22.40
	Total phenolics	\$10.00	\$16.00
	Crude fats	\$11.00	\$22.00
	Ash content	\$7.00	\$9.00

Note 1: All bookings and advice regarding chemical analysis should be directed to Analytical Services Lab staff.

Note 2: Level 2 charge applies only where the complete analysis is undertaken by Analytical Services Lab staff. For Level 2 charges, there is an additional cost when submitting a batch of less than six samples.

Note 3: Prices do not include cost of digestion chemicals.

These fees are applicable for the period: January-December 2010			
GATTON	Central Analytical Laboratory (50783)	per sample	per sample⁴
Atomic Absorption Spectrophotometer (Elemental)	(i) Prepared sample per element	\$3.00	\$7.00
	(ii) Unprepared sample per element	\$4.00	\$10.00
Auto Analyser	Fee dependent upon application – please ask		
CNS Combustion Analyser	(i) C & N biological and soil samples (prepared)	\$9.00	\$13.00
	(ii) Samples for S	\$10.00	\$15.00
	(iii) Sample preparation (grinding)	Na	\$5.00
ICP sequential	(i) Prepared sample – and 1 element	\$5.50	\$10.00
	Additional elements (each)	\$0.50	\$0.50
	(ii) Unprepared sample – and 1 element	\$8.00	\$16.00
	Additional elements (each)	\$0.50	\$0.50
Liquid Chromatography HPLC	unprepared sample	\$15.00	\$20.00
Gas Chromatography - Gas analysis	FID detector dedicated to Ethylene	\$5.50	\$8.50
	TC Detector dedicated to carbon Dioxide	\$8.00	\$12.50
Total Organic Carbon Analyser (TOC)		\$2.00	\$6.00
Near Infra Red Spectrometer (NIRS)		\$250 per year per user	\$400 per year per user
Fourier Transmittance Infra Red (FTIR)		\$250 per year per user	\$400 per year per user
Soil ph and EC		\$1.50	\$3.00
(Spectrophotometric) UV/ Vis Spectrophotometer	Cl, NO ₃ , NH ₄ , PO ₄	\$2.00	\$3.00
	Unprepared sample	\$3.00	\$4.00
	Wavelength scanning	\$1.50	\$3.00
Water Analysis	pH, EC, Ca, Mg, Na, Cl, HCO, CO ₃	\$70.00	
Glucosinolates		\$90.00	

Note 1: All bookings and advice regarding chemical analysis should be directed to Analytical Services Lab staff.

Note 2: Level 2 charge applies only where the complete analysis is undertaken by Analytical Services Lab staff. For Level 2 charges, there is an additional cost when submitting a batch of less than six samples.

Note 3: Prices do not include cost of digestion chemicals.

Note 4: Prices do not include GST which will be applied when applicable.



Table 4: Research Projects (Laboratory Equipment Access Fee):

A yearly access fee is applicable to the following items of equipment. The fee per person applies for one to three projects. For four or more people, a fee reduction per project may be considered. The actual cost of consumables used to run the equipment is carried by each individual user.

These fees are applicable for the period: January-December 2010

Equipment	Location	Yearly access rate per person
HPLC	N124	\$280
LCMS	N124	\$500
Gas Chromatograph	N123	\$280
GCMS	N123	\$400
UPLC	N410	\$300
Plate Reader	N410	\$100
HPLC, GC, densitometer	N410	\$100 for access to one of these. \$150 for access to all of them.
-80C freezer, Incubator, Seed X-ray machine	S211	\$20 per quarter. (\$80 per year)
PCR machines (3x), Biological Cabinet, UV/Vis Spectrophotometer, Bio-Rad GelDoc system, -80C freezer	N321	\$20 per quarter. (\$80 per year)

Note 1: At St Lucia, gas cylinder rental and the purchase of laboratory gases (instrument grade air, helium, hydrogen, nitrogen,) is shared equitably across all users.. A charge will be applied on an equal share basis between those Groups using these gases.

Note 2: At Gatton, gas cylinder rental and the purchase of laboratory gases is paid for by the School and on-costed to individual users.



Table 5: Crop Research Unit Fee for Service - Gatton

	Service	Description	Fee
Research Fees (note 1) are on a per crop basis and do not include GST Contact: Mr Tod Eadie 0428 101 903	Bare land fee (area <u>less</u> than 1 hectare)	Base cost of using land. Basic land preparation included, (includes seed bed preparation, basal fertiliser, irrigation applications, destruction of crop residue)	\$0.60/ M ²
	Bare land fee (area <u>greater</u> than 1 hectare)	Base cost of using land. Basic land preparation included, (includes seed bed preparation, basal fertiliser, irrigation applications, destruction of crop residue)	\$0.35/ M ²
	Plastic mulched and bed formed cropping (Charge per crop)	Bed preparation, pre-plant herbicide, basal fertiliser application, t-tape/plastic mulch installation, side dress fertiliser applications, chemical application, irrigation applications, and crop removal. (Additional for weed control and chemical costs)	\$5.50/lineal metre
	Tomato trellis charge	Includes labour and materials to erect trellis and labour to dismantle trellis	\$5.00/lineal metre
	Buffer Row Charge	Includes herbicide application or cultivation for weed control and pesticide application to entire trial area.	\$1.00/lineal metre
	Rainout Shelter	Unfunded Postgraduate \$1,000. Fully funded <u>school</u> research projects \$2,500	\$5,000.00
	Perennial tree crop -- single row	Mounded row 100metre long 9 metre wide 4 x slashes + 4 x roundup sprays + initial rip and rotary hoe	\$600 per year per row
	Bird/hail netted area	New production area	\$1.00 / M ²
	Labour	Base fee for CRU work (external to school clients + 20%)	\$38.00 /hour
	Tractor	Base fee CRU work	\$45.00 /hour
	Quad motorbike	\$125 per single day. For <u>continuous</u> days; day 1 = \$125, day 2 = \$100 day 3 and thereafter \$75 per day	sliding scale
	CRU drying ovens	Annual fee per research project	\$100 per trial
	Hand tools and the like	breakages/loss @ replacement cost)	
		Non standard operations or requests	P.O.A.

Note 1: Fees do not include the cost of seed or planting material. Additional trial consumables, extra to the basic requirements as listed in Table 5, will be charged at cost +15% and installation and/or application will be charged at the above rates for labour and machinery.



Table 6 Plant Nursery, Glasshouse and Apiary Fee for Service - Gatton

These fees are applicable for the period: January-December 2009				
Unit	Service	Description	Level 1	Level 2a
Plant Nursery Unit Gatton Contact: Victor Robertson 5460 1237 Brad Pearce 5460 1411	Pot media	Propagation media (includes amendments and nutrients)	\$0.25 per litre	
	Pot media	General pot media (soilless) (includes amendments and nutrients)	\$0.25 per litre	
	materials	Materials (eg pots, fertilisers, etc)	@cost + 20%	
	Space <u>Open area</u>	base price per M ² per week. includes watering and pest management	\$2.00	\$3.00
	Space <u>Protected area</u>	base price per M ² per week. includes watering and pest management	\$3.00	\$4.00
Glasshouse (central) Contact: Victor Robertson 5460 1237 Ross Bourne 5460 1239	Space	price per M ² per week. - no labour	\$4.00	\$8.00
	ex PC-2	price per M ² per week. - no labour	\$4.00	\$8.00
	Whole bay in the small glasshouse	price per bay per week. - no labour	\$30.00	
Glasshouse (research) Contact: Dr Margaret Johnston 5460 1240	Space	price per M ² per week. - no labour additional charge if weekend watering is requested	\$10.00	\$20.00
Apiary Contact: John Swift 5460 1281 or 33 65 1173	Hive rental	Pollination Charges	P.O.A.	



Chart Fields for Charging

	Opal Unit	Site	Fund	Function	Project
Food Labs, St Luca	7026301	01	241	51	006641
Analytical Services, St Lucia	7026309	01	251	61	
Plant & Soils Labs, St Lucia	7026301	01	241	51	006642
Food Micro Lab, St Lucia	7026301	01	241	51	005178
Gas Recoveries, St Lucia	7026301	01	241	51	006632
Central Analytical Laboratory (CAL), Gatton	7026308	03	251	61	
Crop Research Unit, Gatton	7026307	03	251	61	
Plant Nursery Unit, Gatton	7026306	03	251	61	
Glasshouses, Gatton	7026301	03	241	51	005177
Workshop, Gatton	7026301	03	241	51	006638
Gas Recoveries, Gatton	7026301	03	241	51	006637