Background
Budget information for 2018 is provided below. Unless otherwise specified, a CPI increase of 4% p.a. should be factored into budgets for multi-year grant applications such as ARC and NHMRC (i.e. for 2019 and beyond).

Overview – Instrumental Facilities
The Analytical Centre can provide assistance for project grant applications including ARC and NHMRC, in:

- Determining the appropriate types of instrumentation and experiments required for a project
- Determining the appropriate number of hours of instrument access required by a project
- Budgeting for instrument access charges and associated costs (e.g. sampling consumables)
- Specifying Analytical Centre specialist support for method/technique development, implementation of novel/advanced experiments, training of project staff etc.
- Providing a clear statement of the extent to which access charges are subsidised by University and Government funding
- Providing advice on ancillary costs (e.g. sample preparation; project-specific accessories)

Statistics Advice
A new research consulting and support unit, Stats Central was established in 2016. Experience is that statistical issues can be a significant problem leading to unsuccessful grants. Statistical review by an experienced statistician can help avoid these problems. Stats Central is able to offer advice on statistical design and analysis issues. Additional information can be found at the following link, http://www.analytical.unsw.edu.au/stats-central

Links to access and pricing information
If your project proposal involves intensive use of instruments or significant method development in a particular lab, we encourage you to contact the relevant facility director or lab manager for further advice and a cost estimate for the project.

The MWAC Director and Facility/Unit Directors are happy to advise on the full range of experimental capabilities available for your project. New researchers and those planning to access particular facilities for the first time are strongly encouraged to seek specialist advice before incorporating these plans in their grant applications.

BMIF (Fluorescence microscopy and related bioimaging)
http://www.analytical.unsw.edu.au/facilities/bmif/user-corner/charges

BRIL (pre-clinical imaging)
http://www.analytical.unsw.edu.au/facilities/bril/flow/pricing

BRIL (Flow Cytometry)
http://www.analytical.unsw.edu.au/facilities/bril/imaging/pricing

Pre-clinical MRI: please contact Dr Andre Bongers for advice and budget information, andre.bongers@unsw.edu.au Tel. 9385 9358

BMSF (Mass Spectrometry, chromatography, iTC, nanoDSC)
http://www.analytical.unsw.edu.au/facilities/bmsf/access-costs

Electron Microscope Unit
http://www.analytical.unsw.edu.au/facilities/emu/documents

NMR (includes ESR)
http://www.analytical.unsw.edu.au/facilities/nmr/access-charges

Solid State & Elemental Analysis (Includes XRD, XPS, XRF, ICP and thermal elemental analysis);
http://www.analytical.unsw.edu.au/facilities/sseau
See access charges for each lab under ‘Related Documents’ - lower right hand menu block

Spectroscopy (Raman, FTIR microscopy, CD)
http://www.analytical.unsw.edu.au/facilities/speclab/training-courses/costs-for-training-and-access

Lowy Biorepository
http://biorepository.unsw.edu.au/policies-procedures
Contact Anusha Hettiaratchi for specialist advice (anusha@unsw.edu.au)

Transgenic Animal Unit
http://www.analytical.unsw.edu.au/facilities/taf/services
Contact Dr Fabien deleRue (fabien.delerue@unsw.edu.au) for specialist advice and costs.

Budgeting for Instrument Access and Associated Costs
Instrument access charges will usually be the major cost for an experiment carried out in the Analytical Centre. Guidelines on incorporating these in your budget are given below for ARC and NHMRC applications.

Depending on the instruments and techniques involved, there may be other associated costs for running your experiments, including costs for specialist sample preparation (e.g. purified solvents) or for accessories and consumables (e.g. sample holders or chromatography columns). If necessary, contact the Director or Manager of the relevant facility to discuss your particular needs and for guidance on budgeting for specialised experiments.

Analytical Centre staff will provide training for researchers and students to enable them to run their own experiments when appropriate. If you need advice on justification of personnel (e.g. what level of expertise might be required and hence what level of staff appointment is needed to support the project), discuss your specific needs with Centre staff.

Occasionally, it may be appropriate for you to budget for samples to be run by Centre staff. Talk to us for advice if you are considering this option.

Access to External Facilities
Your project may require access to experimental facilities not available at UNSW. The Analytical Centre may be able to advise on arrangements with other institutions via national networks (e.g. AMMRF, NIF), LIEF partnerships or reciprocal access agreements. In most cases these are indicated on the Centre website. Consult us for more information.

Current Analytical Centre instrumentation and measurement capabilities are available from the instrument sections of our website: http://www.analytical.unsw.edu.au
Major equipment purchases can take up to a year to complete, so if the resources you require are not listed, don’t hesitate to ask.

Contacts
Acting Director: Dr Carl Power, 9385 8655, c.power@unsw.edu.au
For a full list of contacts see http://www.analytical.unsw.edu.au/mwac-centre-offices
EXAMPLE 1, ARC Discovery

Budget

This example relates to a project that requires an average of 8 hr per week of mass spectrometry. Include a line item in the Budget Table D1 for the appropriate years, as shown below.

Other

Proteomic mass spectrometry (320 hrs @ $30 / hr) $ 9,600

Section E1; ‘Justification of Funding’

“The research project requires the proteomic analysis of affinity pull-downs of subcellular fractions at the rate of 5 samples per week for 40 weeks in year 1, with an estimated 8 hours instrument time per 5 samples. The base operating cost for student-run mass spectrometry at the BMSF is $90 / hr to which the university contributes $60 (for UNSW projects). The balance of $30/hr is requested from the ARC.”

You must add further specific explanation of why mass spectrometry is essential for the research outcomes, for example: “Tandem mass spectrometry combined with liquid chromatography is at present the most effective method of confident protein identification and the elucidation of post-translational modification of proteins.”

EXAMPLE 2, NHMRC Project Grants

Budget

This example relates to a project that requires access to liquid chromatography---mass spectrometry for one batch of samples per week, at 4 hours per batch, for 45 weeks. This yields 180 h of instrument time and a total project cost of $5,400 at the subsidised internal rate of $30 per hour.

Add your calculated access fees for each year into your total Direct Research Costs and insert the total into the appropriate year box in Section B-PB: Proposed Budget. RGMS will automatically round the annual amounts to the nearest $5000. You should enter the exact budget figure required. Justify each item of Direct Research Costs by year in the space provided.

‘Justification of Direct Research Costs’

“This research project requires the examination of one sample per week using advanced LC---mass spectrometry with an estimated 4 hours per run at a subsidised cost of $30 per hour of instrument time.”

You must add further specific explanation of why the mass spectrometry or other technique is essential for the research outcomes.