

Jan 15, 2016

**Mark Wainwright Analytical Centre
Advice for Project Grant Applications
for 2016 funding**

Background

Budget information for 2016 is provided below. Unless otherwise specified, a cost-of-living price increase of 4% p.a. should be factored into budgets for multi-year grant applications such as ARC and NHMRC (i.e. for 2017 and beyond).

Overview

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 (eg 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)

Links to general budget information are provided here.

If your proposed project involves intensive use or major new method development in a particular lab or technique, we encourage you to contact the relevant facility director or lab manager for further advice and a cost estimate for the project.

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

BMIF (Fluorescence microscopy and related bioimaging)

<http://www.analytical.unsw.edu.au/facilities/bmif/user-corner/charges>

BMSF (Mass Spectrometry, chromatography, iTC, nanoDSC)

<http://www.analytical.unsw.edu.au/facilities/bmsf/access-costs/fees>

BRIL (pre-clinical imaging; flow cytometry)

<http://www.analytical.unsw.edu.au/facilities/bril>

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

Electron Microscope Unit

<http://www.analytical.unsw.edu.au/facilities/emu>

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/sites/default/files/facility_related_files/icp_rates_2015-internal.pdf

http://www.analytical.unsw.edu.au/sites/default/files/facility_related_files/sseau_access_costs_1.pdf

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/sites/bio/files/uploads/Documents/Lowy%20Biorepository%20Costings%20March%202013.pdf>

Contact Anusha Hettiaratchi for specialist advice (anusha@unsw.edu.au)

Budgeting: Instrument Access and Associated Costs

The major cost for an experiment carried out in the Analytical Centre will normally be instrument access charges. Guidelines on incorporating these in your budget are given below for ARC and NHMRC applications.

Depending on the techniques involved, there may be significant associated costs in running your experiments, including specialist sample preparation (e.g. purified solvents) and accessories (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 your researchers and students to enable them to run their own experiments. If you need advice on justification of personnel (e.g. what level of expertise might be required and hence what level of appointment is needed to support the project), discuss your specific needs with Centre staff.

Occasionally, it may be more 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 you don't see what you need listed, don't hesitate to ask.

Contacts

Executive Director:

A/Prof. Grainne Moran, 9385 4642, g.moran@unsw.edu.au

For a full list of contacts see <http://www.analytical.unsw.edu.au/contactus.htm>

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

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, ensuring the totals in each year are rounded to the nearest \$5,000 quanta. 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