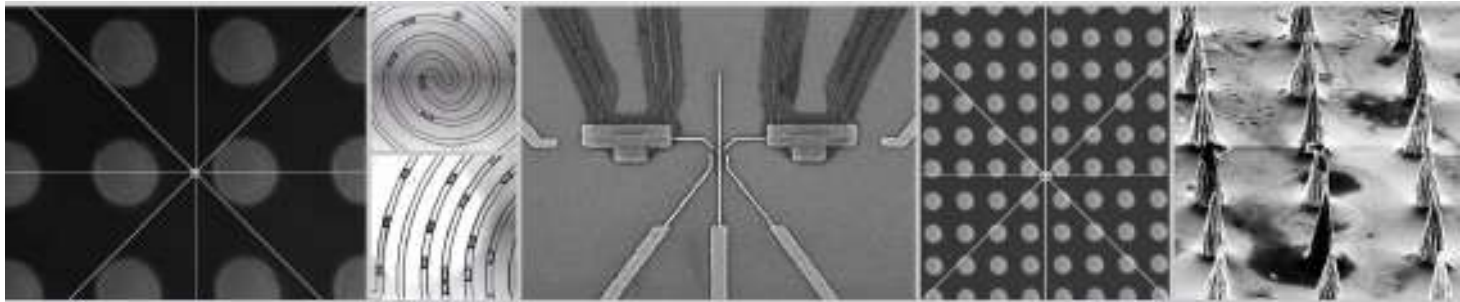


ANFFL EIF Information Session

Victoria, 26 June

Brisbane, 30 June

Sydney, 6 July





Education Investment Fund

EIF is an opportunity to build on ANFFL:

1. Providing transformational capability
2. Accessible to all users under NCRIS principles

An investment plan will be submitted to DIISR by late November considering:

1. The scientific case & national fabrication framework
2. The external user base & host environment, co-investment, timelines, in-kind contributions etc.

Today's session will describe the **process** for creating the ANFFL EIF investment plan.

Session Outline



1. EIF objectives
2. NCRIS principles
3. Restrictions
4. Funding profile
5. Progress to date
6. Timeline
7. Submission content

EIF Objectives



EIF provides funding for projects that **create or develop significant research infrastructure**, in order to:

- transform Australia's knowledge generation and teaching capabilities,
- boost participation in tertiary education,
- position Australia to meet domestic skills needs now and into the future,
- enhance Australia's innovation capacity,
- invigorate the growth of Australia's research capabilities, and
- enhance Australia's international competitiveness in education & research.

NCRIS Principles



- Australia's investment in research infrastructure should be planned to maximise contributions to economic development, social wellbeing and environmental sustainability.
- Infrastructure resources should be focussed in areas where Australia is, or has the potential to be, world-class and provide international leadership
- Major infrastructure should be developed on a collaborative, national, non-exclusive basis.
- There should be as few barriers as possible to accessing major infrastructure for those undertaking meritorious research
- The Strategy should seek to enable the fuller participation of Australian researchers in the international research system.

What this means for NCRIS projects



- Will need new funding agreements for the new Super Science money
- Will have different, though complementary, reporting requirements
- Will have to seek ongoing operational funding from elsewhere
- Will be subject to over-arching requirements from the central agencies for EIF funding.

Restrictions

- Cannot be used for ongoing operational or maintenance costs, particularly staff to operate the infrastructure
- Cannot shift funding between financial years
- Unlikely that further investments in EBL or cleanrooms will be supported



Co-investment & in-kind contributions



- Essential to demonstrate that infrastructure will be adequately supported, including staffing & location
- No formula applied for co-investment
- Evidence of in-kind contributions throughout funding period will be required

EIF Funding Profile



		08-09	09-10	10-11	11-12	12-13
NCRIS	Infrastructure	Yes	Yes	Yes	No	No
	Running Costs	Yes	Yes	Yes	No	No
Super Science (EIF)	Infrastructure	Yes	Yes	Yes	Yes	Yes
		\$10m	\$10m	ZERO	\$15m	\$15m
	Running Costs	No	No	No	No	No

Preliminary Specifications



Initial Milestone - Funding Agreement between the Commonwealth and ANFF Ltd for the ANFF EIF Project					
Specifications of Infrastructure to be created and developed in accordance with the ANFF EIF Interim Project Plan (as per Section 2.2, Attachment A of the Funding Agreement)					
Infrastructure Element	Value (\$'000)	Purpose	Material systems	Scale/ volume	Specifications/ resolution
White light source for confocal microscope	180	Full flexibility for materials analysis using confocal microscopy without autofluorescence	organic, inorganic and biological	individual sample/system analysis	Fully tuneable super continuum argon laser Excitation range from 470 to 670nm in visible spectrum in 1nm increments. To be integrated into the Leica TCS SP5 confocal microscope
Dual Polarisation Interferometry	270	Label-free high resolution spectroscopic analysis of small molecule and polymer interactions on surfaces and biointerfaces.	biological, organic and inorganic films	individual sample with option to install multi sample feedthrough	Mass +/- 0.1 pg mm ⁻² Refractive Index +/- 1 x 10 ⁻⁷ RI units Dimensional resolution +/- 0.1 Å. • Remote internet operation for unattended use and diagnostics, • Small sample-volume capability (<50 µL). • Data Sampling Rate 10Hz (0.1 seconds)
Spectroscopic ellipsometer	405	Thin film characterisation (inorganic, organic and biological)	all thin films	Single sample analysis Automated sample translation for mapping 200 x 200mm (XY)	193-1690 nm spectral range heating stage, fluid cell, automated sample alignment and sample stage
Zeta potential measurements for particles and flat surfaces	68	Surface potential and charge measurements	planar surfaces, fibres, particles and membranes	Single sample analysis Automated sample translation for mapping 200 x 200mm (XY)	Measurement range -2000 - +2000 mV in streaming potential mode • pH range 2-12 • Automated titration unit • Symmetric and asymmetric sample mounting
Total Internal Reflection Fluorescence - TIRF	242	Protein-protein, cell signaling and cell interactions on surfaces.	biomolecules on any transparent substrate	Single sample analysis	Can be used with 405nm, 440nm, 488nm, 532nm, 543nm, 561nm, 594nm, 633nm, 635nm, 640nm lasers. • Epi-fluorescence illumination source Mercury lamp 100W or Xenon lamp 75W or Halogen lamp 100W. • Mirror attach/detach for switching between TIRF and epi-fluorescence • temperature-correction mechanism on TIRF objectives

Timeline



Activity	Time
Initial public meetings	Late June/ early July
Submission of draft proposals	28 August
Presentation of proposals	Early September
Final submission of proposals	Late September
Release of draft project plan	Late October
Submission of final Project Plan	Late November
Completion of Funding Agreement	15 December

Submission Content



Submissions should include the following information:

1. Transformational capability provided by infrastructure
2. Scientific case
3. External user base identification and forecasts
4. Contribution to national framework
5. Host environment and staffing
6. Co-investment & in-kind contributions