

RESEARCH SUPPORT FUND INSTITUTIONAL PERFORMANCE OBJECTIVES 2016-17

Eligible Expenditure Category	Institutional Performance Objective	Indicator	Output	Targeted Outcomes	Reported Outcome
Research Facilities	Renovate two labs in the Chemical and Materials Building to house high-performance electron microscopy suite and new atomic resolution chemical Transmission Electron Microscope (Chemi HRTEM). The new HRTEM will be unique at UAlberta and will provide new research capacity/capability.	2 specific labs: a TEM laboratory and a TEM sample preparation lab. Support 10 researchers and 20 other users across Science, Engineering and Medicine.	Renewal of existing research infrastructure to house the 2 TEM labs. Project started 2015-16		The research labs have proper ventilation, powered by a fan array with 18 small fans for redundancy and greatly reduced risk.
	Replacement of the aged equipment to have the new air system provides the required air quantities in the Centennial Center for Interdisciplinary Science Lab (CCIS).	Quality of air in the research labs.	The CCIS air system will be converted from a single fan to a fan array providing operational redundancy and an air quality sampling system will be installed.	The research labs in CCIS 1 will have proper ventilation, powered by a fan array with 18 small fans for redundancy and greatly reduced risk.	The research labs have proper ventilation, powered by a fan array with 18 small fans for redundancy and greatly reduced risk.
Research Resources	Reliable, cost-effective access to current research resources for faculty and staff. These resources include access to subscription-based databases and electronic journals essential to modern university-based research communities.	Number of full text downloads for Elsevier Direct Package [part of Canadian Research Knowledge Network (CRKN) resources] will be measured.	RSF fund will be used primarily for CKRN journal subscription.	We estimate there will be 500,000 full texts download of Elsevier Direct Package materials.	Achieved 1,662,410 text downloads for Elsevier Science Direct, (part of CRKN package)
Management and administration of an institution's research enterprise	Provide research administrative support for processing of new grants and awards as well as amendments.	2,300 new grants and awards setup, 2,500 amendments for 2016-17.	Provide necessary administrative support to UAlberta's research community and federal granting agencies.		In 2016-17 year Research Services Office has processed 2232 new grants and awards, as well 2695 new amendments.
Regulatory requirements and accreditation	Much of UAlberta's research produces biological, chemical or radioactive waste; waste that must be disposed via well established and defined processes. The Environment Health and Safety (EHS) provide staff and facilities to ensure that waste products are disposed in approved processes.	Volume of hazardous waste processed: 71,000 liters of liquid waste and 13,000 kgs of solid waste.	Hazardous waste material stored in research environments is maintained at reasonable levels and is collected within two weeks of collection request.		The hazardous waste facility operated successfully through the 2016/17 financial year. Wastes associated with research were processed through the facility as per standard processes. The facility successfully received new 10 year operating certification from both Alberta Environment and the Canadian Nuclear safety Commission. A total of 12, 500 kg of solid waste, 88,000 liters of liquid waste and 30,550 kg of bio-waste were processed.
	Continual development of an integrated Environment Health and Safety Management System of processes and procedures in research settings that efficiently meet regulatory requirements.	Improved compliance with regulatory requirements as measured by laboratory inspections, incident investigations and regulator's audits.	Continual adoption of new programs developed as part of the EHS Management System.		Audits were completed by the Canadian Food Inspection Agency, the Canadian Nuclear Safety Commission, Alberta Environment and the Public Health Agency of Canada. All issues associated with these audits have been addressed or plans are underway for completion. In fourth quarter alone, the Environment Health and Safety Management System has completed 619 laboratory inspections.

	<p>Technical staff/support for preclinical research activities of research laboratories across UAlberta to ensure that Canadian Council on Animal Care (CCAC) animal care and welfare standards are met or exceeded and that UAlberta retains a current CCAC Certificate of Good Animal Practice.</p>	<p>Preclinical research services to 140 researchers from seven faculties. Currently, there are 275 active Animal Use Protocols. This includes animal husbandry and care, technical services and training services for 339 research staff. Continue to maintain CCAC accreditation and a Certificate of Good Animal Practice necessary for UAlberta researchers to access Tri-Council funding.</p>	<p>Portion of Federal RSF allocated to preclinical research support staff and resources.</p>	<p>Monitor number of researchers and active animal use protocols receiving preclinical research support services. Maintain UAlberta's CCAC accreditation and research community access to Tri-Council Funding. New faculty recruitment of researchers who receive preclinical support services through HSLAS.</p>	<p>140 researchers used preclinical research services and 280 active Animal Use Protocols. The CCA certificate of Good Animal Practice was received in 2015 and it is active. CCAC assessment is schedule for May 9-12, 2017. For period April 2016 to March 217, 16 new researchers used HSLAS services.</p>
<p>Intellectual property</p>	<p>Accelerate translation of new discoveries into marketable products by Identifying, protecting, and facilitating development of new technologies emanating from University of Alberta inventors. Build connections between UAlberta inventors, industry and funding agencies to facilitate the development and transfer of technologies preferably through spin-off company creation. Operate the region's largest technology accelerator, to build stronger linkages between the University and the entrepreneurial investment community.</p>	<p># New Inventions created # New patents filed # spin-offs created Commercialization \$\$ raised by UAlberta researchers Growth in revenue and employment by client firms; access to investment by client firms, survival rates of client firms</p>	<p>\$1,500,000 invested in existing technology accelerator</p>	<p># New inventions created in fiscal year 2016-17 = 100 # New patents filed in fiscal year 2016-17 = 55 # Spin-offs created in fiscal year 2016-17 = 5 Commercialization \$\$ raised by UA researchers in fiscal year 2016-17 = \$2M Growth in employment by clients in fiscal year 2016-17 = 20% Growth in revenue by clients in fiscal year 2016-17 = 8% Access to investment by clients in fiscal year 2016-17 = \$30M One-year survival rate of clients = 98%"</p>	<p># New inventions created = 104 # New patents filed = 44 # Spin-offs created = 4 Commercialization \$\$ raised by UA researchers = \$2.5M 4% increase in revenue but 4% decrease in employment by UA clients (UA clients in 2016-17 compared against the same clients in 2015-16) Access to investment by clients = \$88.5M Survival rates of UA clients = 90% Target exceeded</p> <ul style="list-style-type: none"> • Access to investment by client firms • Commercialization \$\$ raised by UA researchers • # New inventions created <p>Achieved 80-92% of target</p> <ul style="list-style-type: none"> • One-year survival rate of UA client firms • # Spin-offs created • # New patents filed <p>Achieved 50-79% of target</p> <ul style="list-style-type: none"> • Growth in revenue by UA client firms in 2016/17 <p>Below target</p> <ul style="list-style-type: none"> • Growth in employment by UA client firms in 2016/17