Incremental Project Grants

INSTITUTIONAL PERFORMANCE OBJECTIVES 2020-2021

In 2020/21, the University of Alberta will receive Incremental Project Grants funding of $ 2,810,646 and invested in the following projects:

Project Description	Priority area(s)	Amount Invested	Institutional Performance Objective	Indicator	Targeted Outcomes	Reported Outcomes
Chemistry East - Electrical Distribution Upgrade	- Facilities renewal	$ 1,595,646	Install an expanded electrical service throughout the building which will allow for additional research equipment and laboratories since existing building service is capped. New electrical service will be expanded to allow for additional research equipment connections, and more modern research laboratory developments.	Additional lab modernizations will be able to go forward. Equipment additions can be installed.	Improved electrical capacity for lab modernizations and for additional research equipment.	**Achieved:** New electrical distribution and equipment have been installed. Researchers are now able to add additional equipment without risk of tripping electrical breakers. Significant reduction in deferred maintenance.
F-4 Poultry Research HVAC Upgrade	- Facilities renewal	$ 500,000	Replace a failing HVAC make up air unit that provides heating for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, and heating for research and animal handling areas.	**Delayed, In-Progress:** Design phase completed. Construction to be complete in October 2021.
F-14 Poultry Research HVAC Upgrade	- Facilities renewal	$ 200,000	Replace a failing HVAC make up air unit that provides heating for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, and heating for research and animal handling areas.	**Achieved:** HVAC central system and equipment have been fully renewed. Researchers occupying the building benefit from improved ventilation, comfortable, and stable environmental conditions for research. Reduced risk of failure, and reduced deferred maintenance.
F-27 Metabolic Unit HVAC Upgrade	- Facilities renewal	$ 100,000	Replace a failing HVAC make up air unit that provides heating for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, and heating for research and animal handling areas.	**Achieved:** HVAC central system and equipment have been fully renewed. Researchers occupying the building benefit from improved ventilation, comfortable, and stable environmental conditions for research. Reduced risk of failure, and reduced deferred maintenance.
F-30 Dairy Research HVAC Upgrade	- Facilities renewal	$ 125,000	Replace failing HVAC heaters that provide heating for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, and heating for research and animal handling areas.	**Achieved:** HVAC central system and equipment have been fully renewed. Researchers occupying the building benefit from improved ventilation, comfortable, and stable environmental conditions for research. Reduced risk of failure, and reduced deferred maintenance.
F-62 Crop Science HVAC Upgrade	- Facilities renewal	$ 40,000	Replace a failing HVAC make up air unit that provides heating and cooling for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, heating, and air conditioning for research and animal handling areas.	**Achieved:** HVAC central system and equipment have been fully renewed. Researchers occupying the building benefit from improved ventilation, comfortable, and stable environmental conditions for research. Reduced risk of failure, and reduced deferred maintenance.

F-73 Dairy Production HVAC Upgrade	- Facilities renewal	$ 50,000	Replace a failing HVAC make up air unit that provides heating for the research lab and animal handling areas to comply with safe working conditions for research and animal care.	Compliance with regulatory building occupancy codes as well as standards for safe work conditions and animal care.	Renewal to a fully functioning HVAC system that will provide adequate ventilation, heating, and air conditioning for research and animal handling areas.	**Achieved:** HVAC central system and equipment have been fully renewed. Researchers occupying the building benefit from improved ventilation, comfortable, and stable environmental conditions for research. Reduced risk of failure, and reduced deferred maintenance.
Health System Access Administrative Database - NACTRC Integration	- Information resources	$ 75,000	Streamlined process to complete deliverables related to the Administrative Approval issued by NACTRC for clinical studies: (i) Data Access Approvals (DA): Access to charts, extracts, or direct access to various health data repositories. (ii) User Management (UM): Tracking of research team members' Clinical Research Coordinators, credentials, training, demographics, and profile.	Provide researchers with an integrated platform to manage all of the administrative requirements that comprise the NACTRC-issued Administrative Approval.	Improved efficiency of research administration, decrease study initiation timelines, streamline researcher navigation to enhance the competitiveness of Alberta as a clinical trial destination and attract greater clinical research investment to Alberta.	**In-Progress:** In FY2020-21, this multi-year project to create a provincial platform for clincial research, was kicked off, and requirements were mapped out by the teams. The University of Calgary (IRISS) team initiated the development of the intake form, while NACTRC initiated the form development for HREB studies. All teams begun mapping and developing the new information/data exchange mechanism for request intake and process. IPG supported a part-time project manager and vendor (Forcorp) costs associated with this development. In-kind support provided by the Univeresity of Calgary (IRISS) and AHS.
CancerControl Alberta - Cross Cancer Institute (CCI) - Infrastructure Renewal	- Facilities renewal	$ -	Replace or offer maintenance services for outdated or malfunctioning equipment in the Experimental Oncology research program.	(i) Replacement of the water purification system (reverse osmosis), installed in 1992/1993, to clean glassware used in the labs.	(i) Water purification system will be updated to lab standard	**Cancelled:** Funded by AHS funds due to urgency of the need: entire glassware cleaning system relies on the water purification system. IPG funding reallocated to initiative (vi)
	- Facilities renewal	$ 19,000		(ii) 2020 Cantos (BDFACSCanto) flow cytometer maintenance.	(ii) Regular maintenance will be done for optimal calibration to analyze a variety of different cell types by different labs at CCI, including precious patient material that cannot be replaced if the cell analyzer malfunctions	**Achieved:** The vacuum pump in the CCI Cell Imaging Facility developed a leak which had to be repaired in order for the electron microscope to work. PLUS SARRP instrument repair The SARRP instrument is used to deliver radiation to animal models precisely in order to mimic the delivery of radiation to patients. Outcome: users are now able to use the SARRP instrument for their equipments.
	- Facilities renewal	$ 22,000		(iii) Inspection and servicing of two irradiators used to generate DNA lesions in cells and tissues to study DNA damage response and DNA repair.	(iii) Two irradiators that require maintenance and are past due for their 3 year inspection, are serviced and inspected	**Achieved:** One irradiator inspected. Much of the work at the CCI involves delivery of radiation to cells to investigate the effects of radiation on cancer cells. We have two irradiators which need to be calibrated and certified at least once every five years by the vendor from the United States. The Shepherd company came to maintain and certify the gamma source irradiator - ensuring cells are irradiated with the proper doses and that there is no leak in the system.
	- Facilities renewal	$ -		(iv) Replacement of one -80C freezer, used to store the most critical of lab materials, including irreplaceable modified cells and patient tissues.	(iv) Oldest -80C freezer replaced, ensuring that CCI will not lose any modified cells or patients tissues.	**Cancelled:** IPG funding was not applied to the project. IPG funding was reallocated to higher priority item (vi).

	- Information resources	$ 17,000		(v) Technical support for maintenance of animal care standards in the Vivarium, as assessed by the Canadian Council on Animal Care every 3 years for compliance with the regulations associated with the use of animals.	(v) Individuals handling animals and equipment are properly trained so as to meet regulatory requirements.	**Achieved:** Technical support obtained to ensured proper use of the complex imaging and radiation-delivery equipment at the CCI Animal Care Facility and annual fee paid to be listed in the Canadian Council on Animal Care certification program. Outcome: The CCI Animal Care Facility was able to maintain its Good Animal Practice standing, allowing users to carry on with their preclinical experiments using mouse models. PLUS Bitplane software purchased. This software is required for 3-dimensional image analysis at the CCI Cell Imaging Facility.
	- Information resources	$ 42,000		(vi) Technical support for CCI Imaging Facility to support training of students, PDFs, technicians and research associates.		Additional Project - reallocation of funds from cancelled projects (were funded instead by AHS) **Achieved: T**echnical support was provided to train students, post-doctoral fellows, technicians and research associates in the proper use, care and maintenance of the wide range of complex microscopes in the facility.
Establishing a Biosafety Framework Development for Clinical Research - Edmonton Zone	- Information resources	$ 25,000	Meet the conditions set out by the Human Pathogens & Toxins Act (HPTA) to provide biosafety reviews and approvals for clinical research conducted at AHS facilities using potentially pathogenic material.	AHS will establish a framework for biosafety reviews and approval, and complete an application for Biosafety License for Clinical Research.	AHS will be positioned to support investigators at UAlberta conducting advanced clinical trials in the fields of personalized medicine, immuno-oncology and gene therapy.	**In-Progress:** In FY2020-21, AHS recruited a biosafety specialist to assess AHS' landscape and incoming research requests to understand the scope of a provincial framework. A briefing note was developed to outline the need and benefits of a cohesive framework.