2026/27 IPG Projects

Project Title	IPG Priority Area	Output (investment of IPG grant funds)	Performance objective	Performance indicator	Target outcome	Reported outcome
YSciCore Nuclear Magnetic Resonance Spectroscopy (NMR) Maintenance & Renewal	Facilities renewal, including deferred maintenance	$100,000	Ensure that lead investigators can propose complex experiments without the risk of magnetic field drift or hardware failure mid-acquisition	Magnet Stability & Cryogenic Efficiency: Magnet Quench Prevention Rate; Cryogen Boil off Rate Monitoring; Field Homogeneity Specs Mechanical Reliability & In-house Innovation: Sample Changer Success rate; Mean time to resolution for repairs; maintenance cost savings Operational throughout and research support: high-throughput volume; complex experiment success rate; user training compliance; interdisciplinary utilization	Reductions in magnet quench Improved efficiency in cryogen consumption Improved sample changer success rates Improved mean time to resolution for repairs Increased number of samples processed per month Improved rates of transition of projects from routine analysis to advanced applications Increased number of students and researchers trained in NMR best practices Increased number of unique PIs and departments utilizing NMR suite	
YSciCore Advanced Light & Electron Microscopy (ALEM) Maintenance & Renewal	Facilities renewal, including deferred maintenance	$100,000	Enable investigators to include robust "Feasibility and Technical Readiness" sections, demonstrating that the necessary high-resolution infrastructure is both	Equipment reliability & uptime Technical expertise and quality control Research output & capacity	Reduction in % of time that SEM and LSM are offline Improved quality control pass rate Improved frequency at which microscopes meet sub-nanometer resolution benchmarks	

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			operational and expertly supported		Improved user competency/success rate Increase user throughput Multidisciplinary reach	
York Microfabrication Facility Maintenance	Facilities renewal, including deferred maintenance	$25,000	Enable full functionality of the Microfabrication Facility	Researchers utilize the Facility	Number of grant and award applications processed in fiscal year 2026-2027 Number of users (internal and external)	
MRI Facility Maintenance	Facilities renewal, including deferred maintenance	$100,000	Ensure continued, safe operation of MRI Facility during transition period	number of users number (and total $) of grant applications funded number (and total $) of external contracts.	Increased user base Increase volume of scans	
LA&PS Research Storage Infrastructure Expansion	Facilities renewal, including deferred maintenance	$200,000	Increase capacity for secure onsite research storage to manage highly sensitive research data safely	Increased capacity for storage infrastructure	Increase capacity by 166% at a minimum (from 120TB)	
Healthy Living Hub (Upgrade)	Facilities renewal, including deferred maintenance	$58,548	Support safe human sample work, and to ensure the efficient and long-term retention of samples	number of "new" collaborative research projects focussed on lifestyle interventions number (and $) of "new" community and partner grant	12+ researchers co-locate to lab 60-70 HQP utilizing the Hub for research and training purposes	

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				submissions and funding number of partnered research engagements (talks, short course research training sessions, and visiting scholars) in Y1 number of community symposia number of projects with active participant recruitment drawn for the community surrounding YorkU.		
Design Fabrication Lab Upgrade and Maintenance	Facilities renewal, including deferred maintenance	$25,000	Support small and large team grant applications as well as potential commercializati on funding opportunities.	Strengthening community engagement and building external and industry partners Knowledge mobilization of faculty and student research Sustainability initiatives in Design/AMPD/York University (workflows using soy inks) Commercialization of design Encouraging entrepreneurship and development with YSpace	Functionality of the Design Fabrication Lab workflow will be restored for faculty research and student training that will allow faculty and students to carry out innovative design projects that have academic and commercial value. The lab will be able to support research creation and potential commercialization projects in typography, mixed media innovations, graphic novels, and ongoing interdisciplinary Design/Health research working with communities with lived experiences of	

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					pain to build self-advocacy programs.	
Canadian Planetary Simulator Maintenance	Facilities renewal, including deferred maintenance	$25,000	Support the functionality of the vacuum chamber, SEM and FTIR, enabling researchers to write applications that rely on the use of that equipment.	# of Internal users include faculty members and graduate students from all four Lassonde departments (ESSE, EECS, CIVL, MECH) and several researchers from the Faculty of Science – more than a dozen faculty in total and >20 graduate students. # of External users Increased support groups that have CSA funding	After service and with regular service visits, we anticipate less downtime for the equipment, enabling efficient and uninterrupted use by internal and external users. This is also essential for future growth (e.g., number of users, types of users, public and private sector interest in the facility).	
Enhancing pre-clinical facility readiness for neurophysiology research	Facilities renewal, including deferred maintenance	$583,742	Complete the first phase of the pre-clinical research infrastructure renewal by procuring and implementing caging for HNB 119, thereby improving the functionality and sustainability of a priority vivarium research space. Strengthen operational readiness and	Completion of HNB 119 procurement, delivery, installation, commissioning, and operational transition milestones against the approved project schedule; Recruitment, assignment, or funding of one incremental RVT for the enhanced housing environment; Completion of RVT onboarding,	The immediate outcome will be enhanced infrastructure in a priority vivarium space, together with the technical support required for animal care, operational routines, safe handling, behavioural training, documentation, and integration into the existing vivarium environment. Longer-term impacts are expected to include increased research continuity,	

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			compliance resilience by adding incremental RVT capacity to support animal care, safe operations, training, documentation, and transition to the enhanced housing environment. Protect continuity of federally funded and prospective federally funded neuroscience research by reducing the risk of disruption caused by facility limitations, outdated housing configurations, or insufficient technical support. Establish a practical first phase and implementation model that can inform future annual IPG applications for HNB 121A/B and HNB 121C, subject to institutional priorities and	training, and integration into HNB 119 operating routines; Documented animal-care, veterinary, cleaning, safety, and operational protocols for use of the enhanced HNB 119 environment; Internal readiness assessment and evidence of alignment with institutional animal-care governance and regulatory/compliance processes; Number of faculty, research staff, trainees, and research programs supported by the HNB 119 phase; Number of Tri-Agency and other external grant applications and awards supported by access to the renewed facility; Research outputs enabled by the facility, including publications, conference presentations, collaborations, and HQP training outcomes; and Qualitative feedback from the	stronger grant competitiveness, peer-reviewed publications, conference presentations, research collaborations, and HQP training outcomes.	

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			funding availability.	University Veterinarian, Vivaria Operations, animal-care staff, and researchers on functionality, safety, animal-care operations, and sustainability		
Enhancing Industry Partnerships	Innovation and Commercialization Activities	$326,760	Grow capacity for engaging with industry, negotiating industry contracts and enhancing industry matched funding programs such as Mitacs, NSERC Alliance and NSERC I2I.	Industry partnerships: # agreements; value of industry agreements, research income from Mitacs and NSERC Alliance	Investing the IPG in supports for industry partnerships will allow York to fulfil two of six priorities in the University Academic Plan. These include: Priority 2: Knowledge for the Future Priority 5: Working in Partnership	