

SFU received a total RSF grant (excluding IPG) of **\$8,112,8100.00** in 2019. SFU received a total of **\$618,959.00** of IPG funding.

RESEARCH SUPPORT FUND OUTCOMES:

	OBJECTIVES	INDICATORS	TARGETED OUTCOMES	OUTCOMES STATUS
FACILITIES	Support knowledge creation and exchange	Modern, safe, sustainable and well-equipped research facilities	<ul style="list-style-type: none"> - Quantity and quality of research space - Quantity and quality of technical support 	<ul style="list-style-type: none"> • Renovations were completed in SFU's Big Data Hub for a designated space where industry can connect with SFU's principal investigators and students. • The SFU ImageTech Lab is the first lab of its kind in Western Canada. The lab, embedded at Surrey Memorial Hospital, promises to bring rapid innovations to medical imaging and will be a cornerstone in Surrey's Health Technology District. This facility is in part possible because of RSF support. Read more about the launch event in September 2018.
RESEARCH RESOURCES	Facilitate research at undergraduate, graduate, and faculty levels	Ubiquitous access to research resources and tools	<ul style="list-style-type: none"> - Amount and utilization of shared Library facilities and resources - Improvements to electronic information resources 	<ul style="list-style-type: none"> • SFU launched the Research Funding and Awards Opportunities Database, containing the details of over 450 research grant and faculty award opportunities. The database is continuously updated and expanded by SFU's Research Services staff. • The SFU Library is a leader in digitization initiatives, which require specialized tools for describing, discovering, accessing, analyzing and repurposing data sets. The RSF helps to implement and operate these collections and services, which are necessary to maintain SFU's momentum as a leading research institution with a strong national and international reputation. • The SFU Library's Research Commons supports the research endeavors of the university community, with a particular focus on graduate students during all stages of the research lifecycle. Read the Research News story about how the RSF contributes to the SFU Library's Research Commons.
MANAGEMENT & ADMIN	Maintain the effective operation of SFU's research enterprise	Efficient leadership and support, including accurate and timely reporting	<ul style="list-style-type: none"> - Quantity of funded research - Quality of research support and promotion 	<ul style="list-style-type: none"> • A new office known as Institutional Strategic Awards (ISA) has been created, in order to better streamline our support services for faculty. Part of this organizational change was provided by the RSF.

			<ul style="list-style-type: none"> - Effectiveness of information systems 	<ul style="list-style-type: none"> • SFU's Research Services team assists SFU faculty members in obtaining and administering financial support for their research. Read the Research News story about how the RSF maximizes the benefits of SFU's Research Services.
REGULATORY REQUIREMENTS	Maintain the highest level of ethical and safe conduct for research	Compliance with regulatory, financial, and funding agency requirements	<ul style="list-style-type: none"> - Compliance with CCAC, Tri-Council Policy Statement - Quantity and quality of regulatory and technical support 	<ul style="list-style-type: none"> • RSF provides the creation and support of regulatory bodies, such as SFU's Research Ethics and technical support for Animal Care. • Research Ethics educates researchers in the policies and process of research ethics and ethics review and facilitates the review process conducted by the SFU Research Ethics Board and its subcommittees. • Without the RSF support, animal research at SFU would be compromised and in many cases could not be performed. Without this support, the facilities and services for the proper and humane treatment of animals in our care would not function properly.
INTELLECTUAL PROPERTY & KNOWLEDGE MOBILIZATION	Mobilize research for social and economic benefit	Intellectual property and technology transfer activity	Quantity and quality of IT/tech transfer activity	<ul style="list-style-type: none"> • The RSF covers the salaries of staff within Industry Engagement (IE). These positions help SFU researchers build effective working relationship with communities, industries, governments, NGOs and non-profits to increase the solution capability of SFU innovators. • The IE leadership team has recently completed the full hiring process, and all positions are in place for IE to run at full capacity. See the Research News story about how the RSF contributes to the success of the IE leadership team
OVERALL IMPACTS	Achieve national and international leadership in research and innovation	Outcomes of SFU's strategic research and innovation initiatives	<ul style="list-style-type: none"> - Attraction of outstanding faculty and students - Growth of research funding - Number of research collaborations - Recognition of research and innovation excellence - Contributions to economic and social development 	<ul style="list-style-type: none"> • Two new Canada 150 Research Chairs started at SFU in 2018 and 2019: Caroline Colijn, Imperial College mathematician, Chair in Mathematics for Infection, Evolution and Public Health, in the Department of Mathematics, and Wendy Hui Kyong Chun from Brown University, Chair in New Media, in the School of Communication. • Three SFU faculty members were named Fellows to the Royal Society of Canada (RSC), while an additional two SFU faculty members were named as College Members, Artists and Scientists. See SFU News story. • SFU and Fraser Health unveiled the new world-class medical imaging research facility—SFU ImageTech Lab—the first of its kind in Western Canada. The lab will advance treatment of brain disorders and diseases. See the SFU News story. • SFU was once again named the top comprehensive university in Canada. It's the 10th time in the past 11 years that SFU has been named first in this category. See SFU

				<p>News story.</p> <ul style="list-style-type: none"> • The Canadian Statistical Sciences Institute (CANSSI) launched its national headquarters at SFU's Big Data Hub. This collaboration between SFU and CANSSI creates a powerful opportunity to leverage the strengths of both institutions and to advance Canadian statistical sciences for the 21st century. See SFU News story. • SFU has an international footprint of partnerships with 2947 institutions worldwide, in 125 countries. • Over the last 15 years, SFU has increased its research capacity more than two-fold, having surpassed \$100M in 2013 and reached \$142.6M in 2018. • SFU continues to be a leader in big data and innovation, as seen through SFU's Big Data Initiative, and the university's innovation strategy, SFU Innovates. • SFU Innovates programs, such as RADIUS SFU, SFU VentureLabs and Coast Capital Savings Venture Connection, continue to inspire social change and drive economic transformation.
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INCREMENTAL PROJECT GRANT OUTCOMES:

	OBJECTIVES	INDICATORS	TARGETED OUTCOMES	OUTCOMES STATUS
INNOVATION & COMMERCIALIZATION (INTELLECTUAL PROPERTY & KNOWLEDGE MOBILIZATION)	Support a number of promising technologies in both clean tech and health tech	<p><u>Indicator 1:</u> The number of inventions disclosed.</p> <p><u>Indicator 2:</u> The number of patent applications submitted.</p> <p><u>Indicator 3:</u> The number of patents and licenses issued.</p>	<p>Provide support for the cost of legal fees</p> <p>Provide dedicated technology managers</p>	<p>IPG funds enabled SFU's Industry Engagement office to provide increased support for clean tech and health tech promising technologies, primarily through IPG support of staff salaries and legal fees. SFU's Industry Engagement office provides support to innovators at SFU by assessing the potential of new technologies and research innovations.</p> <p>Industry Engagement services are broad, including confidential invention disclosure reviews, technology assessments, patentability reviews, market assessments, and assistance for intellectual property protection and commercialization. In addition, the Industry Engagement office matches industry and community partners with technologies, innovations, and researchers. IPG support during this fiscal year contributed toward the salaries of Industry Engagement staff, including to technology managers who assisted researchers in building effective working relationships with communities, industries, governments, Non-governmental</p>

				<p>Organizations and not for profit organizations. The Technology Managers also provided researchers with increased access to information about intellectual property, identifying promising technologies, and commercialization possibilities. In addition, IPG contributed toward legal fees related to patents.</p> <p>As a result of all these efforts, researchers filing patent applications and obtaining licenses were able to obtain the critical support necessary for success. Ultimately, IPG funds contributed to SFU's ability to support innovation and commercialization of technologies like clean tech and health tech.</p>
FACILITIES RENEWAL (FACILITIES)	Provide support for SFU's Core Facilities, including Image Tech Labs	N/A	Invest in the operational costs of the facility to help the lab become self-sustaining	<p>The SFU Image Tech Lab, one of SFU's Core Facilities, was opened in July 2018 after several years in planning and development. ImageTech is a world-class imaging research facility that can offer multiple services including a high-field magnetic resonance imaging (MRI) uniquely co-located with high-density magnetoencephalography (MEG), an emerging neuroscience tool.</p> <p>During the 2018-2019 fiscal year, the IPG funds supported the operational costs of the facility, including support for the hiring of an Operations Manager who was critical to get the facility launched and operational. IPG funds also supported the purchase of operational supplies like liquid Helium that is required for the MEG system, and service contracts necessary for the MRI equipment. During this time, in addition to training of staff, graduate students and research teams, ImageTech developed and adapted research study protocols for the MRI and MEG, conducted pilot-scanning activity, and conducted MEG and MRI research scans.</p> <p>These outcomes represented progress or completion on research studies from SFU and UBC, including research into traumatic brain injury, autism, epilepsy, a rare congenital defect called amyoplasia, and new learning about activation of white matter in the brain. Overall, the IPG funding has allowed ImageTech to get up and running.</p>