

Indirect Costs Outcomes Report

File Number P0056

Main Contact Information

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Statement of Account

Total Indirect Costs Funds available in 2011-2012	A	\$9,138,329
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Expenditures incurred in 2011-2012

Facilities	\$1,560,390
Resources	\$906,372
Management and Administration	\$5,242,697
Regulatory Requirements and Accreditation	\$865,165
Intellectual Property	\$563,705
Total Indirect Costs expenditures incurred in 2011-2012	B \$9,138,329

Outstanding Commitments (The expenditure was incurred but the invoice was not paid in the period ending March 31, but was paid before June 30. Be sure to include the commitments in the appropriate area(s) above.)

\$0

Health Research Affiliates

For organizations with health research affiliates only: for each area of priority, indicate the actual amount of your 2011-2012 grant that was spent by your health research affiliates.

Facilities	\$0
Resources	\$0
Management and Administration	\$0
Regulatory Requirements and Accreditation	\$0
Intellectual Property	\$0

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Section I - Facilities

Expenditures

Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new Expenditures, you would check both A or B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2011-2012 grant invested?
1. Renovation and maintenance of research facilities (excluding expenditures incurred to meet regulatory requirements - see Section IV)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Upgrade, operations and maintenance of equipment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Operating costs (custodial, security, maintenance, utilities, leasing, capital planning, insurance on research space)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Technical support for laboratories, offices and other facilities (excluding technical support for animal care - see section IV)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Section I - Facilities (continued)

Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- what percentage of your O&M expenditure supports CFI-funded equipment?

1-Reno/Maintenance Facility	\$124,594
2-Upgrade/Maintenance Equipment	\$44,421
3-Operating Costs	\$1,260,973
4-Technical Support	\$130,402

NOTE: Impacts are grouped in all 5 categories as follows:

- CD – Cost Drivers
- RB – Researcher Benefits
- AB – Admin Benefits
- A/R – Attract & Retain Researchers or Funding
- W/out IC – Without Indirect Costs Funding

Operating Budget redirected

- \$978,371 Facility Management – Portion of utilities expenses (heat, electricity, water) related to research activities on campus

CD: Natural gas costs

RB: Facility expenses for research lab space are not paid by each researcher

- \$188,107 Corporate Admin – Monthly lease of 7,216 sq' in National Research Council building for Research Services, Research Communications and Research Ethics departments

AB: Opportunity to co-locate 3 departments creates improved cross-unit collaborations & effective communication; duplication of admin activities is minimized; enhanced efficiencies in processing grants; units positioned to more readily keep each other aware of opportunities as they arise (ex: a grant received by Research Services & Ethics may spark interest of administrators, easily shared with Communications to ensure the research objectives & outcomes are appropriately communicated to internal & external stakeholders)

- \$50,000 Risk Management & Insurance – Small portion of property insurance premiums for research related facilities

RB: Reduces funding pressures on researchers for insurance costs

Canadian Light Source (CLS)

- \$13,528 Custodial costs of research facility

RB: Access to a world class, properly maintained research facility; support of professional HR, Finance & Admin services

Colleges

- \$44,421 Agriculture – NEW purchase of Autoclave for researchers use within the college

- \$25,000 Agriculture – Support of Prairie Swine centre with operating costs for research space

RB: At Prairie Swine Centre, training & supervision of grad students from highly qualified personnel and access to facilities

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Section I - Facilities (continued)

Impact Statement

- \$100,000 Arts & Science – NEW renovations to develop contemporary research labs in Chemistry
 - \$35,000 Arts & Science – NEW Saskatchewan Isotope Laboratory Technical Support
- RB: Redirecting portion of IC funds from Mgmt/Admin to Facilities improved research space & funding opportunities
- \$65,402 Engineering – NEW Technical support for research labs & offices
 - \$17,989 Western College Veterinary Medicine (WCVM) – Scheduled maintenance agreement for Electron Microscope
- RB: Continued maintenance of research equipment ensures that WCVM has access to a functioning, well maintained critical research tool

Research Centres

- \$30,000 SK Structural Science Centre – Portion of salary & benefits for 3 Research Officers/Technical Support (instrument maintenance, required facility technical services)
- A/R: Research instruments for core infrastructure maintained; appx 50 peer reviewed publications facilitated; several patents filed; expert researchers attracted to “ready to use” facility & technical training; facility used as example of infrastructure available at UofS when attracting new researchers; sharing of expertise across disciplines is compelling argument to granting agencies

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Section II - Research Resources

Expenditures

Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A or B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2011-2012 grant invested?
1. Acquisition of library holdings (journals, books, collections, periodicals, Canada National Site Licensing project, etc.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Improvements to electronic information resources (access to databases, telecommunications systems, information technology systems, and research tools) (excluding technology to track grants and to provide financial services - see Section III)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Library operating costs and administration (custodial, security, maintenance, utilities, leasing, capital planning, staff salaries)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Insurance on research equipment and vehicles	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Section II - Research Resources (continued)

Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- what proportion of the acquisitions and operating budget of the library is covered by the Indirect Costs Program?
- do you participate in inter-institutional consortia or partnerships to assist in cost reduction in this expenditure category?

Resources

- 1-Library Holdings \$700,000
- 2-Electronic Resources \$206,372
- 3-Library Operating/Admin \$0
- 4-Insurance Research Equipment \$0

Operating Budget Redirected

- \$700,000 University Library – 66% cost of UofS' Canadian Research Knowledge Network's national consortium purchase of ScienceDirect (searchable database of over 2,500 peer-reviewed journals & 11,000 books in science, technology, medicine & the social science; this collection of e-resources in sciences, medicine, technology and social sciences is on par with medical/doctoral peers)

A/R: Researchers accessing these electronic resources to prepare grant applications are more successful in obtaining funding, which enhances the UofS' reputation & success in the academic world; potential high quality researchers attracted to the suite of information resources available to them in support of their research

W/out IC: IC allocation covers approx. 7.7% of the Library's acquisitions budget; the ScienceDirect resource would still be purchased, resulting in cancellation of other necessary packages of electronic resources to offset the cost not covered by IC; cancellations of other electronic resource packages would have a significant impact on research and scholarship

- \$6,372 Edwards School of Business –NEW portion of cost of Wharton Research Data Services (WRDS) web based research platform which provides easy access to archival data through a site license available to the entire UofS community; access to WRDS encourages collaboration, results in increased research productivity across departments; streamlines data analysis

A/R: Availability of this service is very attractive to new recruits as most competing universities already have WRDS, including 8 of 10 Doctoral schools in Maclean's ranking; ability to distribute site licensed data sets to the University research community will attract future Tri-Agency grants

- \$150,000 Information Technology Services – Portion of salary & benefits for 4 Network Technicians, 3 Network Analysts & 4 Network Programmer salaries (this Communication & Network Services group supports & maintains the campus research & educational network, consisting of 17,000 connections & over 800 wireless access points in faculty offices, research labs & other campus locations; network used daily for research, education & administrative work at the UofS)

- \$50,000 Information Technology Services – Supports a 1GB connection to high-speed Canadian & International networks by purchasing memberships/services in the provincial research network SRnet (provide access to CA*net 4, other international research networks & many universities & research labs around the world)

CD: Drivers include commercial internet costs, cyclical renewals of network equipment, and salary & benefits as defined by negotiated agreements

RB & AB: Maintenance & support for network & information technology is critical for both researchers & research

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Section II - Research Resources (continued)

Impact Statement

admin by reducing the need for each unit/researcher to have specialized knowledge & time to ensure computer technology & information sharing options are efficient & current

RB: Access to high-speed Canadian and International networks allows researchers to participate in multi-university, national, and international research collaborations. Access also provides for real-time experimental collaboration, access to and sharing of large research datasets, and use of feature and content-rich collaboration tools.

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Section III - Management and Administration

Expenditures

Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A and B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2011-2012 grant invested?
1. Institutional support for the completion of grant applications / research proposals.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Acquisition, maintenance and/or upgrade of information systems to track grant applications, certifications, and awards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Eligible training of faculty and research personnel (excluding training to meet regulatory requirements - see Section IV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Human resources and payroll	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Financial and audit costs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Research planning and promotion, public relations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Section III - Management and Administration (continued)

Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- do you participate in inter-institutional consortia or partnerships that assist in cost reduction in this expenditure category?

Management & Administration

- 1-Grant Development \$1,163,975
- 2-Research Info System \$44,198
- 3-Training Research Admin \$7,340
- 4-HR Research Admin \$668,089
- 5-Financial/Audit \$2,658,465
- 6-Research Plan/Promo \$700,630

The capacity of the research enterprise has been enhanced with IC support for many positions across campus aiding in grant/proposal development, financial reporting and compliance, research administration, and planning and promotion for the institution's research enterprise. Grant development positions are invaluable to ensuring that high quality applications are submitted to funding agencies to expand research capacity. Financial and research administration positions ensure compliance with funding agencies and auditors, and support researchers through high-quality administration of their research funds. Researchers are able to focus on research rather than administration. Salaries and benefits, according to negotiated agreements, are a significant cost driver in this area.

•Operating Budget Redirected 132,170 Research Services—Grants Specialist & Grants Clerical Support salary (timely & effective review of grant applications, funding tracking, researcher support)

•\$258,468 Office of AVP Research (AVPR)—Associate VicePresident Research (AVPR) salary (develops/promotes scholarly/artistic activity to increase research funding; defines pre-eminence areas; leads proactive research admin teams for CFI/CRC programs; strategic support to UofS' TriAgency coordinators & research centres)

W/out IC: Strategic leadership not funded; research intensiveness & growth reduced

•\$125,398 Audit Services—Associate University Auditor salary (strategic leadership, internal controls, risk mgmt. of research fund admin, compliance audits-specifically TriAgency, including RIT & Ethics)

RB: Receive accountable admin support; processes evaluated & improved on an on-going basis; educated on compliance

W/out IC: Less information communicated to research community; greater difficulty achieving compliance with agency guidelines

•\$57,564 Financial Reporting—Clerical Services salary & benefits (finance/admin for external funding requirements; internal queries)

•\$82,239 Financial Services—Reporting Analyst salary & benefits (key TriAgency & reporting systems)

RB & AB: Improved ability to monitor research funds; simplified central reporting, assurance funding is used appropriately & on time

W/out IC: No other funding, researchers required to administer own funds

•\$13,000 Human Ethics—Portion of salary & benefits to support admin functions

CLS

•\$2,190,150—Portion of salary & benefits for 2 HR positions & several finance/admin positions who assist in preparation/reporting of funding to CLS stakeholders

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Section III - Management and Administration (continued)

Impact Statement

A/R: IC for Facility, Mgmt/Admin & RegReq ensures a high level of service, attracting national & international users, generating scientific publications, and ensuring continued federal & provincial funding; CLS is a national facility retaining 180 staff of varying professions

W/out IC: UofS would need to find central funding for almost \$2.3M or CLS' more restrictive funding sources would need to be redirected to admin rather than research

Research Centres

•\$12,178—Portion of salary & benefits for Manager of Saskatchewan Structural Science Centre

RB: Researchers have a ready to use facility with expert staff to help train HQP and conduct research

•\$41,000 – Portion of salary & benefits for Assistant Director of Toxicology Centre

RB: Research capacity of the Toxicology Centre has expanded resulting in increased research funding

Colleges

Colleges use IC funding in a variety of areas, including significant support for Research Facilitator positions - Facilitators provide information on funding opportunities, liaise with other department and admin units on campus, and allow researchers to focus on the scientific portion of applications, instead of administrative details.

•\$37,608 Agriculture—costs associated with publication of AgKnowledge magazine

RB: Support to a college publication sent to 9,000 stakeholders, including funding agencies, donors and industry that highlight the results of research undertaken by faculty

•\$172,708 Arts & Science—Portion of salary & benefit costs for Research Admin and Research Coordinator positions

•\$10,513 Education—Portion of salary & benefits for Research Facilitator

RB: Researchers receive support specifically in grant development and writing and significant assistance in identifying & disseminating research grant opportunities

•\$45,875 Engineering—Portion of salary & benefits for Associate Dean Support, Director Research & International Relations

•\$46,394 Engineering—Research planning & international collaboration

RB: Creating & sustaining international research contacts & expanding opportunity for future collaborations

•\$12,305 Kinesiology—Portion of salary & benefits for Research Facilitator

•\$209,862 Medicine—Portion of salary & benefits for 4 Research Facilitators

RB: Research Facilitators aid in the faculty identifying funding opportunities, establishing research groups & teams, and led to higher quality funding applications

•\$6,595 Nursing—Third Party contractor was enlisted to provide grant writing reviews for Faculty

•\$16,806 Pharmacy & Nutrition—Portion of salary & benefits for Research Facilitator

•\$40,074 WCVM—Portion of salary & benefits for Research Facilitator

•\$11,642 School of Environment & Sustainability—Portion of salary & benefits for a 1.0 FTE Research Facilitator

OVPR Departments

•\$167,756 Office of Associate VicePresident Reseach--Portion of salary & benefits for Executive Specialist (policies/programs/committees support) & Admin Assistant

•\$26,077 Office of Associate VicePresident Reseach—NEW Costs of several Research Workshops/Forums as well as Research Mission to India and Bangladesh (promoting research internationally)

•\$74,132 AVPR—Portion of salary & benefits for 1.0 FTE Admin Assistant; promoting research success; travel costs for research administration related conferences\$164,764 AVPR Health—Admin Support (joint office UofS/Saskatoon Health Region) & Health Research Development Officer salaries & benefits (strategic national/international projects; major health research in province); professional development

•\$452,173 Research Services—Asst Director Grants/Contracts (efficient/accountable admin of grants applications & contracts) & Advisor Quality Control/Data Mgmt salaries & benefits (dedicated to improved database, metrics, research admin training; identify areas of strengths & focus for new initiatives); Grant Specialists & Grants Support salaries & benefits, professional development, updates to research database

•\$68,372 Institutional Programs—Admin Coordinator salary & benefits (provides day-to-day admin to the IC program

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Section III - Management and Administration (continued)

Impact Statement

at UofS); professional development

- \$170,350 Research Communications—Salary & benefits for a 1.0 FTE Communication Officer, a 0.50 FTE Admin Asst, several short term student writers, specialized communication services (website, video production, science writing, strategic plans for admin units); events & projects

Internal Grant Development

- \$136,592 Dozens of researchers/groups received internal financial asst for grant development (grant writing, editing, meeting with collaborators) & research group development activities

Research Environment Enhanced

- \$25,000 WestGrid—membership contribution to admin & communication
- \$19,076 Institutional Memberships (Canadian Institute of Neutron Scattering, Canadian Conference Board Health Care Innovation)
- \$99,781 Strategic Projects Team—“experts” in contracted positions who promote strategic research areas; portion of salary & benefits for Clerical Asst \$209,903 Joint College/Research Services Facilitators—Research Services portion of salaries & benefits (improved communication & admin efficiencies between researchers, colleges & administrators)

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Section IV - Regulatory Requirements and Accreditation

Expenditures

Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A and B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2011-2012 grant invested?
1. Creation and support of regulatory bodies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Training of faculty and other research personnel in health and safety, animal care, ethics review, handling radiation and biohazards, and environmental assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. International accreditation costs related to research capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Upgrades to, and maintenance of facilities and equipment to meet requirements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Technical support for animal care, handling of dangerous substances and biohazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Section IV - Regulatory Requirements and Accreditation (continued)

Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- to what extent is compliance with Canadian and international regulations required to access research funds from international sources?

Regulatory Requirements & Accreditation

- 1-Regulatory Bodies \$324,998
- 2-Training in Reg. Req. \$374,743
- 3-International \$5,000
- 4-Upgrades Reg. Req. \$4,000
- 5-Tech Support \$156,424

Operating Budget Redirected

- \$167,932 Animal Research Ethics—Portion of salary & benefits for University Veterinarian; half time Animal Research Training Coordinator, half time UCACS Assistant; portion of 3 other positions in 2011-2012 (admin functions of an ethics office; support the research ethics board; support the UofS & University Committee on Animal Care & Supply and the program; training for research ethics & integrity)

W/out IC: Difficulty remaining compliance with regulations which is essential in accessing research funding from national & international sources; research funding at UofS is not released to faculty & graduate students until compliance is met with Canadian regulations in human ethics, animal care & biosafety; for international regulations, UofS holds a Federal Wide Assurance & institutional Review Board Assurance from Office for Human Research Protection, and Animal Welfare Assurance from National Institutes of Health, Office of Extramural Research; for clinical research, ethics requirements follow the International Conference on Harmonization-Good Clinical Practice

- \$23,148 Animal Resources Centre—Portion of salary & benefits of Animal Care Technician (support high quality animal care; breeding of transgenic mice essential for research; regular health screening of rodent colonies for quality assurance)

AB: Assurance that research animals at UofS are cared for in accordance with national standards set out by Canadian Council on Animal Care (CCAC), which in turn ensures continued positive relations with Tri-Agencies

- \$190,552 Human Research Ethics—Portion of salary & benefits for Director & Ethics Facilitator (admin functions of ethics office; supports 2 biomedical research ethics boards & 1 behavioral research ethics board with over 1300 active files; appx 23 presentations on research ethics & integrity to over 600 students, faculty, staff; consultations & drop in assistance for ethics approvals; developing SOPs & evaluation of protocols for compliance for USA standards)

A/R: By ensuring compliance with provincial, national & international guidelines & regulations for research with human subjects, UofS remains eligible to receive funding from all available sources

- \$130,000 Biohazard & Chemical Waste Removal—Portion of cost for statutory compliance disposal of biohazard & chemical waste relating to research activity

CD: Pickup costs for externally contracted companies specializing in removal of biohazard & chemical wastes

RB: Costs associated with removal are not paid by each researcher

Canadian Light Source (CLS)

- \$334,743—Portion of expenditures for training & maintenance of equipment to meet regulatory requirements (required HSE at CLS, including mission critical activities related to Canadian Nuclear Safety Commission regulation)

CD: cost of activities to meet above regulations

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Section IV - Regulatory Requirements and Accreditation (continued)

Impact Statement

Colleges

- \$4,000 Biology – contribution to Biosafety cabinet (government regulation change re-classified biosafety levels for certain organisms, creating the need for a level 2 facility to continue research)

W/out IC: Researcher's team cannot continue their research without this level 2 facility

RB: Level 2 facility provides capacity for future research in the event other organisms are re-classified by regulatory agencies

OVPR Departments

- \$11,513 Research Services—Consortia Advancing Standards in Research Administration information (CASRAI)

Membership

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Section V - Intellectual Property

Expenditures

Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A and B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2011-2012 grant invested?
1. Creation, expansion, or sustenance of a technology transfer office or similar function	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Administration of invention patent applications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Support for technology licensing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Administration of agreements and partnerships with industry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Administration of agreements and partnerships with the public sector (federal, provincial, municipal governments; including health, education, and social services)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Section V - Intellectual Property (continued)

Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?

Intellectual Property

- 1-IP Office Admin \$172,393
- 2-Invention/Patent Admin \$62,179
- 3-Tech Licensing \$82,810
- 4-Industry Partner Admin \$109,711
- 5-Spinoff Companies \$136,612

Industry Liaison Office

• \$563,705—Salary & benefits for Managing Director, Legal Manager, Start-up Company Specialist, & Technology Transfer Manager; portion of Information Systems Manager salary & benefits (ensure intellectual property is effectively managed; increase Reports of Inventions, patents filed and technologies commercialized; licensing income to the UofS is increased)

RB: Access to a dedicated office providing support & expertise in ensuring all aspects of intellectual property are effectively managed, such as research commercialization & patenting

AB: With all positions in one location, support for each other's activities can be shared (ex: Managing Director, Legal Manager & Start-up Company Specialist support each other on the admin of agreements & partnerships with industry & the public sector)

A/R: Potential of licensing and commercialization opportunities within an established support system is attractive to researchers and can lead to licensing income for the University, colleges and researchers.

W/out IC: Full staff complement would not be able to be retained, reducing services to researcher community and decreasing potential for patent filing, execution of licensing agreements and a reduction of licensing income would result.

CD: Salaries & benefits as defined by negotiated agreements

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Section VI - Overall Impacts

We strongly recommend that the Vice-President of research (or equivalent) answer the following questions pertaining to the overall impacts of the Indirect Costs grant.

1. Attraction and retention of researchers

Has the Indirect Costs grant contributed to the attraction and retention of high-quality researchers at your institution?

Yes No

If "yes", please provide an explanation.

- IC to Facilities ensures high quality research facilities & technical support are available
 - Home to world class Canadian Light Source facility
 - Colleges/centres renovations ensure state of the art facilities (ex: Agriculture BioProcessing Plant, Arts & Science Biology suites)
 - Access to high quality, maintained facilities & equipment, and technical expertise & training
 - Researchers don't spend research funding on insurance & utilities

- IC to Resources ensure access to current, high quality resources for researchers
 - Access to WestGrid High Performance Computing and the national & international collaborations available by being a member
 - Expertise of information & technology services, a 1GB high speed connection & on campus data storage
 - 24 x 7 searchable databases with connections to international researchers, organizations & funding opportunities

- IC to RegReq reassure researchers they have support in meeting the complex ethical & compliance aspects of their research
 - Overall reputation of UofS is improved by having excellent human ethics and animal care & use standards and certifications administered by a central office
 - Access to high quality, technical expertise & training in ethics
 - Researchers don't spend research funding on chemical and biohazard removal

- IC to Mgmt/Admin ensure a high level of customer service oriented administration so researchers can focus on what they do best—research
 - Research Communications provides institutional proposal & communication plan writing to attract researchers (CERC, CRC, researchers in 6 "signature" research areas). Their services, projects & events also create a culture of research pride & celebration, and strong institutional research profile, helping retain & attract top researchers
 - Joint office between UofS Associate VicePresident Research Health & Saskatoon Health Region has increased our reputation in health research & innovation, driving recruitment & retention

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Section VI - Overall Impacts

2. Attraction of additional funding

Has the Indirect Costs grant contributed directly to your institution's ability to attract additional funding to support the research environment?

Yes No

If "yes", please provide an explanation.

- IC to Facilities built research capacity, allowed sharing of expertise across disciplines, making compelling arguments for funding investments at UofS
- IC to RegReq ensures ethical, compliance & safety requirements are met before funding released to researchers, reassuring to funding agencies
- IC to Mgmt/Admin was diversely utilized for grant development
 - Several colleges Research Facilitator/Coordinator positions are responsible for assisting faculty with grant application processes, communicating specialized information on major research funding opportunities and university processes/policies, etc. When researchers spend less time on the admin task of applications, it encourages more grant submissions, improved quality & increased probability of funding success

3. Redirection of funds

In the case of a number of institutions, the incremental impact of the Indirect Costs Program includes not only the results of investing the grant itself, but also the results of the other investments the institution is able to make by re-directing its own funds away from the areas covered with the grant. These impacts may be in the area of research support or also in the institution's renewed ability to meet the other aspects of its mandate.

Has your institution redirected some of its own operating funds as a result of the Indirect Costs Program?

Yes No

If "yes", please provide an explanation.

- Our University uses almost 40% of the annual IC monies to fund the incremental costs related to supporting research that would have been charged to our operating budget. This included library acquisitions; ethics certification; information technology resources; utility and property insurance costs associated with enhanced research space; and financial, audit and other administrative support associated with enhanced accountability and stewardship requirements.
- Examples in all 5 categories above not listed as "Operating Budget Redirected" would likely be unfunded if IC grant was not available as they are not normally supported by the UofS operating budget.
- The UofS provided IC to colleges/schools based on amount of TriAgency revenue they generate and this shows researchers and admin they do receive support based on the research funding they generate. In doing this, colleges & schools have invested in research support in a variety of ways, as well as being able to redirect central operating funding to other priorities.
 - In Engineering, Research Coordinator is a dedicated position focused on strategic research goals. This has created an internationally renowned research culture, increased partnership with industry & key government/media influencers, and hosting multiple delegations from international institutions.

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Section VI - Overall Impacts

4. Other overall impacts

If the Indirect Costs Program has had other overall impacts on your institution, which were not listed in the previous questions, please provide details.

- As the largest portion of IC directed to Mgmt/Admin (and HR in other 4 categories), the largest cost driver is increases to salaries & benefits set by collective agreements. This makes it difficult to ensure positions are ongoing, expertise is retained & high quality services in all 5 areas are maintained.
- Additional cost driver in several areas is the internal/external pressure to improve tracking, reporting & metrics without significant increase in staffing or funding. Without IC, there would not be funding/positions available for key areas such as Audit Services, Financial Reporting, Financial Services and Research Services Quality Control/Data Mgmt.
- The creation of joint College/Research Services Research Facilitators has created a more efficient, cost saving communication interface between research admin, researchers & colleges. This will minimize barriers to application processing and improve budgetary & project management activities for researchers. Facilitators comprehensive understanding of research facilities/infrastructure in each college/dept increase the ability to create excited, integrated, collaborative and interdisciplinary team environments.

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Section VII - Public Disclosure Requirement for Institutions

As of June 30, 2012, institutions are required to post a few elements of information on the indirect costs of research and the Program on their website. Please copy and paste below the URL of the webpage where this information is posted.

http://www.usask.ca/research/research_services/federalcosts.php

Section VIII - Your comments

Describe any problem you have experienced with the Indirect Costs Program, suggest improvements to the program, or highlight particular successes of the program at your institution.

- The UofS' diverse use of the IC Grant has supported a rapid growth in research capacity over past several years. However, increasing admin/salary costs, as well as requests to provide more with less (reporting, tracking, metrics) have made it increasingly difficult to financially support "new" research initiatives. With little increase of operating budget support for research, IC is vitally important to all aspects of research at the UofS, as seen by the impacts shown above
- Without IC, the OVPR would struggle to provide strategic leadership (most depts. & key positions are IC funded). Depts also provide key funding application assistance, admin/financial support in grant monitoring, ethics approvals & research promotion, which allows more focused time to achieve research goals
 - Entire AVPR office is IC funded. It provides expertise in strategic policy development & planning, improved research infrastructure, oversight of institutional programs (IC, CRC, CFI, UofS Chairs & Tri Agency), engages synergetic research relationships with research groups, granting agencies, government, private sector
 - Majority of ResComm office is IC funded. It provides strategic communication for 6 "signature areas", communication plans for admin offices; dissemination/impact of findings to stakeholders (public, media, government, private sector) shows taxpayers value of federal investment in research; international research profile for both the UofS and individual researchers
 - Majority of Strategic Project Team office is IC funded. It allows OVPR the ability to initiate & quickly respond to strategic partnerships (nuclear, mining, energy, synchrotron science) & develop a culture of excellence of a top medical-doctoral university
 - Key AVPR-Health positions are IC funded. Its mission to "Catalyze Health Research & Innovation" innovates patient, health system & industry needs; utilizes partner strengths in strategic areas (Health Sciences Bldg); Health Officer assists in major health research funding