

Office of Research Services Annual Report 2012

Director's Message

Research is an integral part of U Windsor and we are committed to conducting relevant research and providing information and education as we move into the future. We strive to be true to our mission of providing information and education and encouraging the application of research-based knowledge in response to issues affecting Canadians.

Budget cutbacks from granting agencies over the last several years have forced Universities to think outside the box in terms of research funding opportunities. But, even in these difficult times as we continue to face a shortfall in research funding we remain firmly committed to our mission of fostering excellence and applying it to interdisciplinary initiatives that impact society. An increasing number of grants are calling for an interdisciplinary approach to research and our researchers currently hail from 8 academic faculties on campus. With this depth and breadth of expertise, the Office of Research Services is working to create new research initiatives and actively providing proposal support to faculty. The University has maintained a steady influx in total research and development expenditures over the last decade which demonstrates that we are competitive in seeking diverse resources to support our research mission in the future, regardless of the economic climate. Efforts are currently underway to increase revenue from contracts, grants and user fees in our research programs as we plan to grow and become a stronger, more viable part of the University's future.

U Windsor has the expertise, infrastructure, and willingness to work with partners in the public and private sectors to solve problems in energy and the environment, automotive, health and medicine, water, food, transportation, housing, and many other areas that are important to advancing relevant and timely research initiatives. The diverse nature of research at U Windsor illustrates that our portfolio is balanced and that the range of funding sources supporting research at our institution and the engagement of academic units across the University in research and development activities is valuable to our community. An interdisciplinary approach to dealing with complex, real-world problems to research is one of our greatest strengths and the characteristic that most distinguishes U Windsor from other universities. Our research initiatives expand our graduate education, making the quality of their individual learning experience second to none—a fact recognized by advanced-degree candidates throughout Canada.

ORS has refocused its activities in recent years to better serve the needs of U Windsor researchers, students and industry partners. Traditional strengths in technology transfer and sponsored research are being complemented by a broader range of activities that highlight the value of ongoing multi-faceted relationships. These new directions have merged around several key aspects such as Industry engagement, which builds on the various industry-sponsored research collaborations at U Windsor each year to further improve industry engagement with academic research and knowledge mobilization, in which traditional commercialization activities are part of an expanded approach to generate research activities. In 2012/13, U Windsor has been able to continue to develop broader directions to create and nurture industry relationships and support new, more open ways of mobilizing research outputs. The transition to these new modes of university-industry interactions has unfolded over the last five years, and has involved significant changes to existing contractual processes and practices. Improving ORS operations are an on-going process and we continuously strive to align with industry engagement, knowledge mobilization, innovation, refinement and development of partnerships and initiatives. We strive to serve the needs of the researchers and students in helping them to achieve their maximum personal potential and extend their impact, continuing to support U Windsor's role as a recognized leader in research, technology transfer and commercialization.

Research Revenue

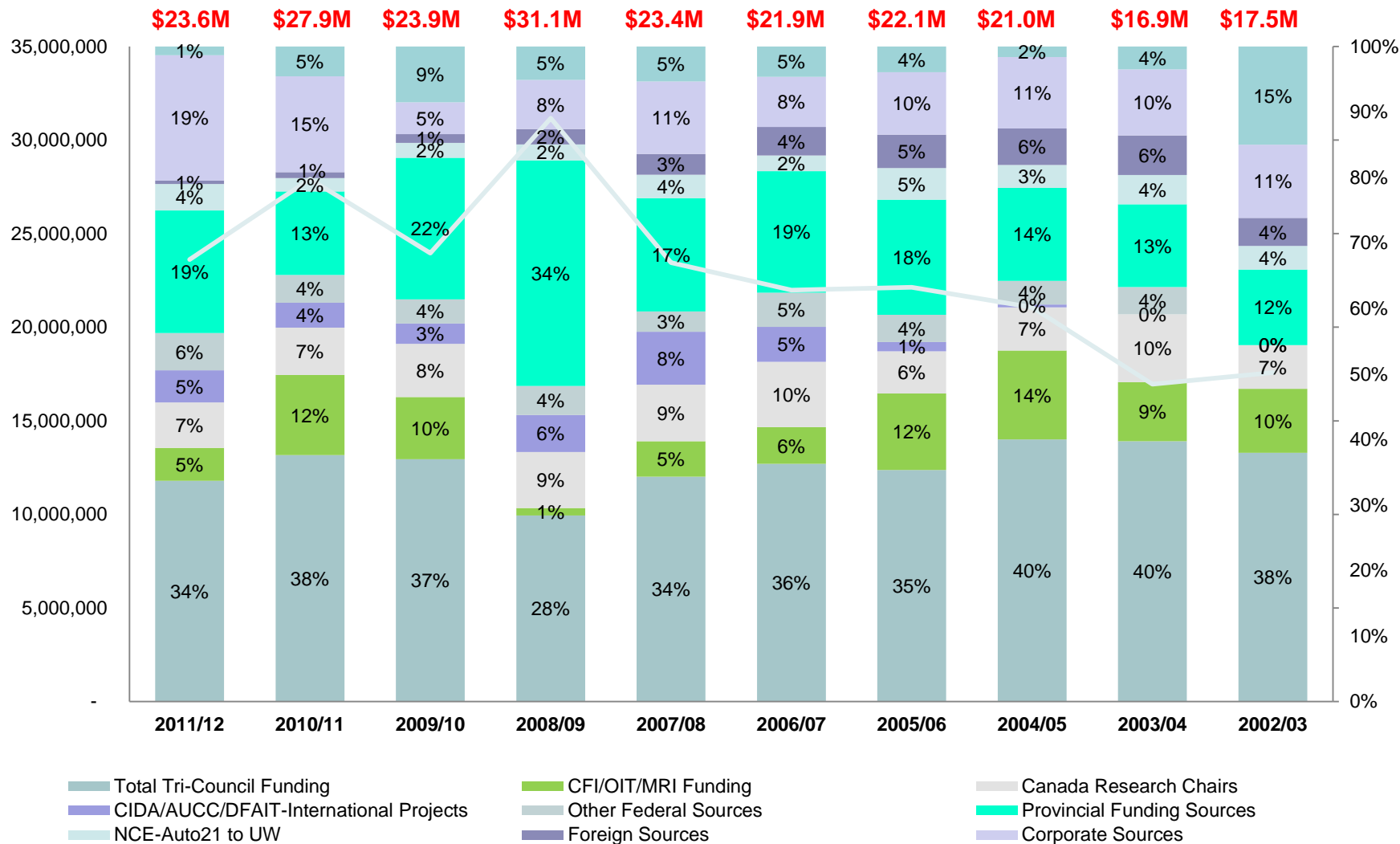
Research Revenue

(10 Year Summary)

	2011/12	2010/11	2009/10	2008/09	2007/08	2006/07	2005/06	2004/05	2003/04	2002/03
External Research Grant Revenue-Gross Per FS	23,616,607	27,918,770	23,966,031	31,163,515	23,450,347	21,982,487	22,131,360	21,063,715	16,952,674	17,581,348
Tri-Council Funding										
NSERC	6,987,240	7,555,267	7,332,183	7,754,273	7,131,302	6,692,629	6,523,983	7,242,871	5,527,566	5,966,749
SSHRC	670,866	1,340,491	742,660	680,679	722,509	927,993	877,762	858,729	995,891	476,173
CIHR	790,903	1,216,462	516,557	418,683	192,175	353,602	422,010	325,289	214,215	232,896
Total Tri-Council Funding	8,449,009	10,112,220	8,591,400	8,853,635	8,045,986	7,974,224	7,823,755	8,426,889	6,737,672	6,675,818
Other External Funding Sources										
CFI/OIT/MRI Funding	1,183,125	3,417,676	2,277,828	347,469	1,276,069	1,234,230	2,590,351	2,858,082	1,532,258	1,719,045
Canada Research Chairs	1,637,500	2,012,500	1,945,833	2,676,559	2,025,000	2,190,666	1,424,788	1,395,781	1,750,000	1,175,000
CIDA/AUCC/DFAIT-International Projects	1,162,585	1,068,806	737,603	1,758,866	1,894,454	1,179,235	311,072	90,000	0	0
Other Federal Sources	1,339,944	1,178,723	887,333	1,373,086	723,236	1,142,625	919,543	760,607	708,709	0
Provincial Funding Sources	4,416,634	3,559,744	5,174,544	10,736,896	4,055,486	4,079,959	3,884,647	2,989,351	2,137,915	2,023,921
NCE-Auto21 to UW	956,904	568,715	547,211	753,822	844,518	522,087	1,074,380	735,293	760,642	634,664
Foreign Sources	123,529	250,386	319,393	738,985	739,726	960,161	1,128,678	1,169,731	1,024,779	749,803
Corporate Sources	4,523,151	4,090,886	1,164,055	2,339,873	2,592,162	1,686,207	2,103,685	2,300,037	1,706,071	1,970,845
Other	309,990	1,268,863	2,043,822	1,584,324	1,253,710	1,013,093	870,461	337,944	594,628	2,632,252
Total Other External Funding Sources	15,653,363	17,416,299	15,097,622	22,309,880	15,404,361	14,008,263	14,307,605	12,636,826	10,215,002	10,905,530
Total External Research Grant Revenue	23,616,607	27,918,770	23,966,031	31,163,515	23,450,347	21,982,487	22,131,360	21,063,715	16,952,674	17,581,348

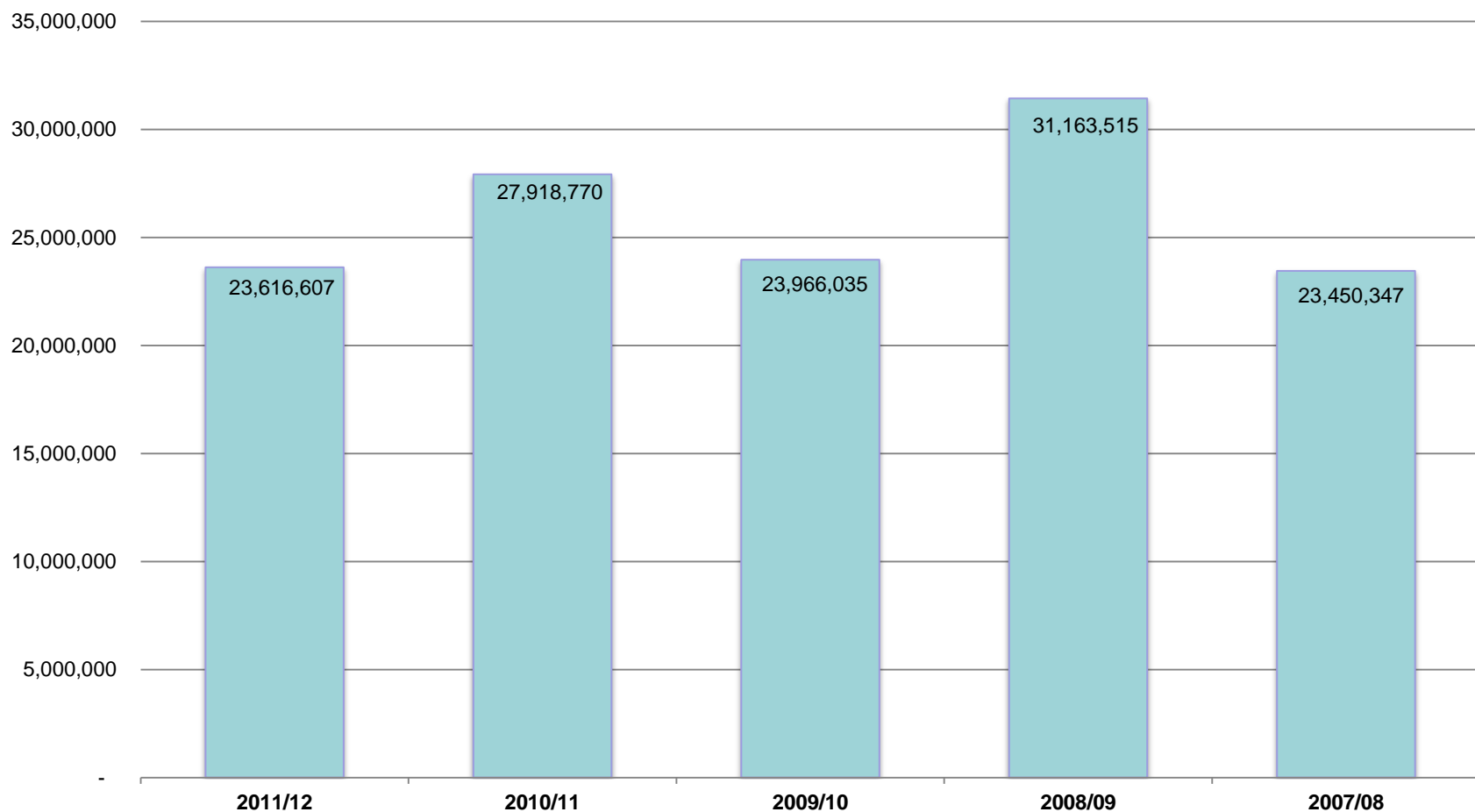
Total Research Revenue by Agency

(10 Year Summary)



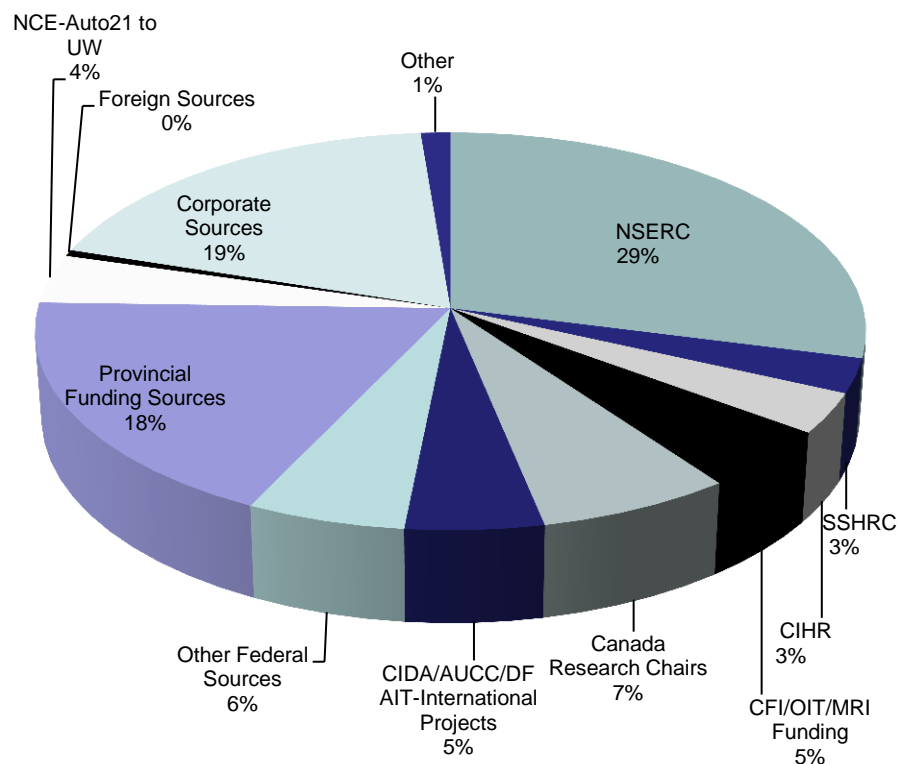
Total Grant Revenue

(5 Year Summary)

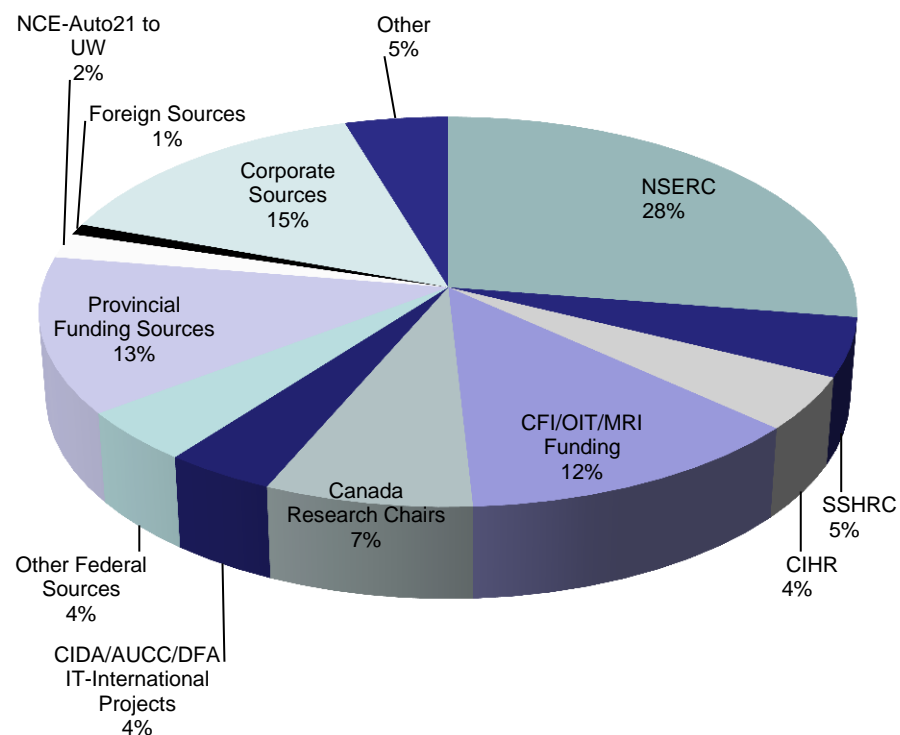


Total Sources of Funding for Research Grant Revenue

2012



2011

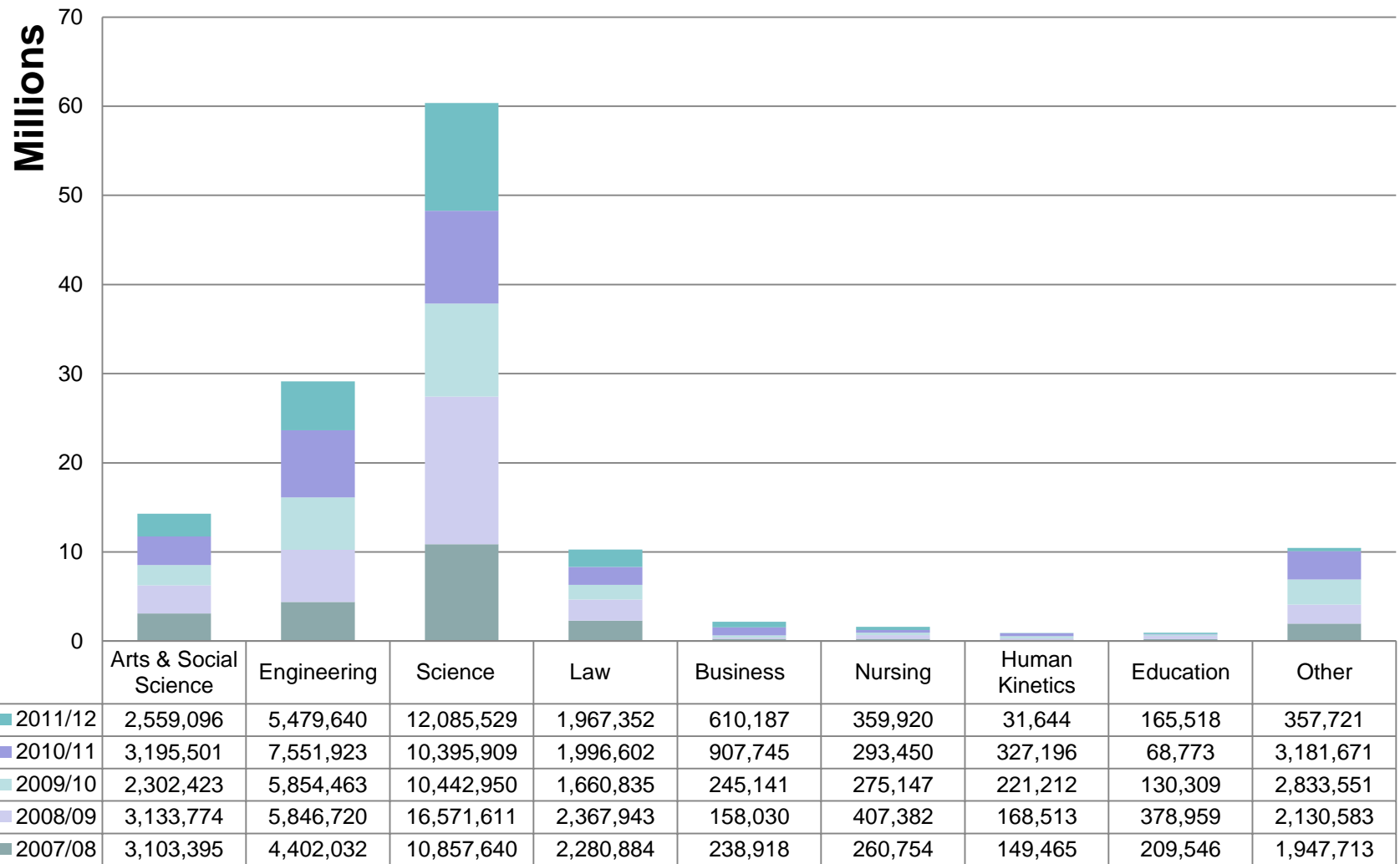


Research Revenue by Faculty

thinking forward

Total Research Revenue by Faculty

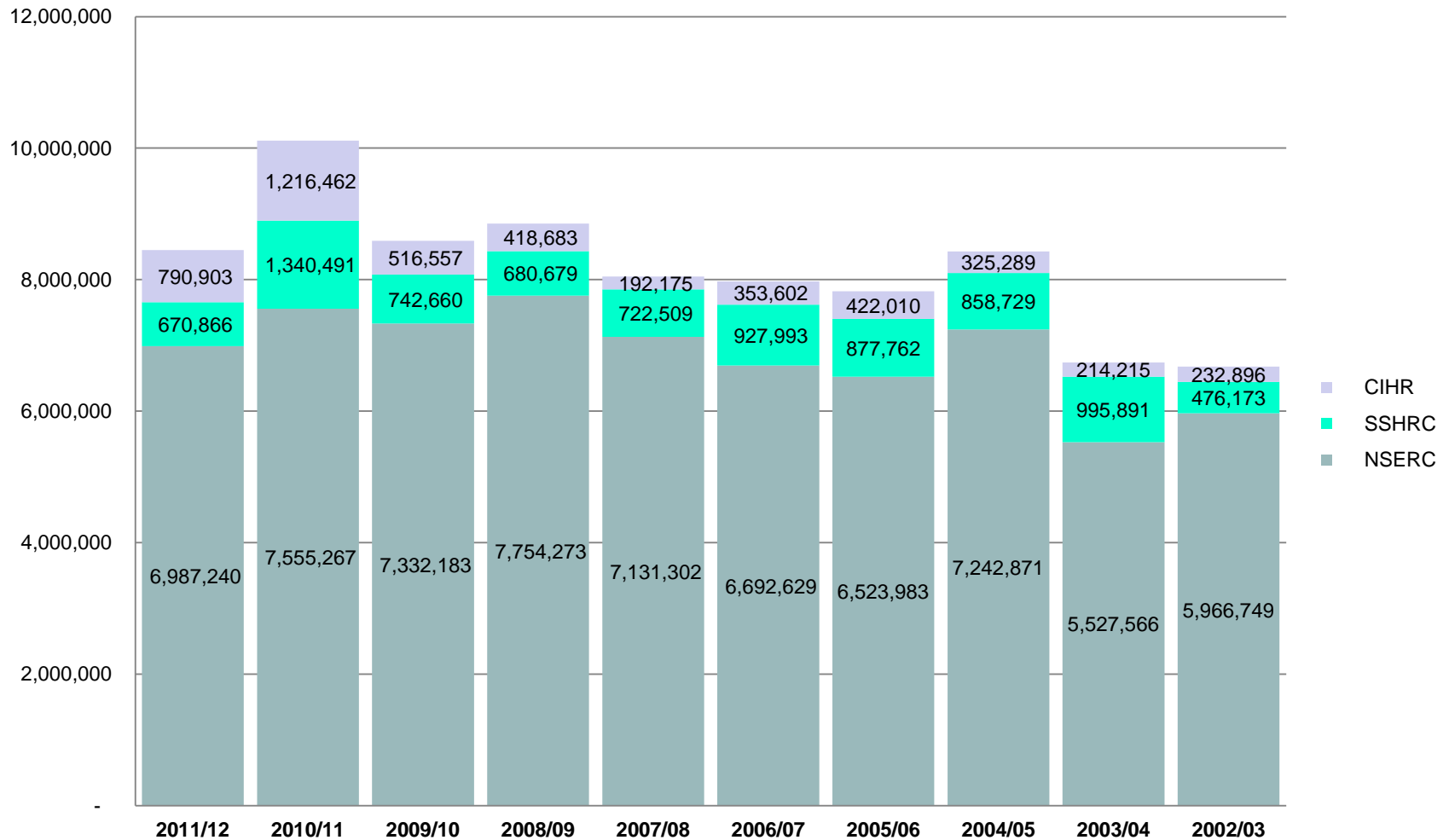
(5 year summary)



Tri-Council Funding

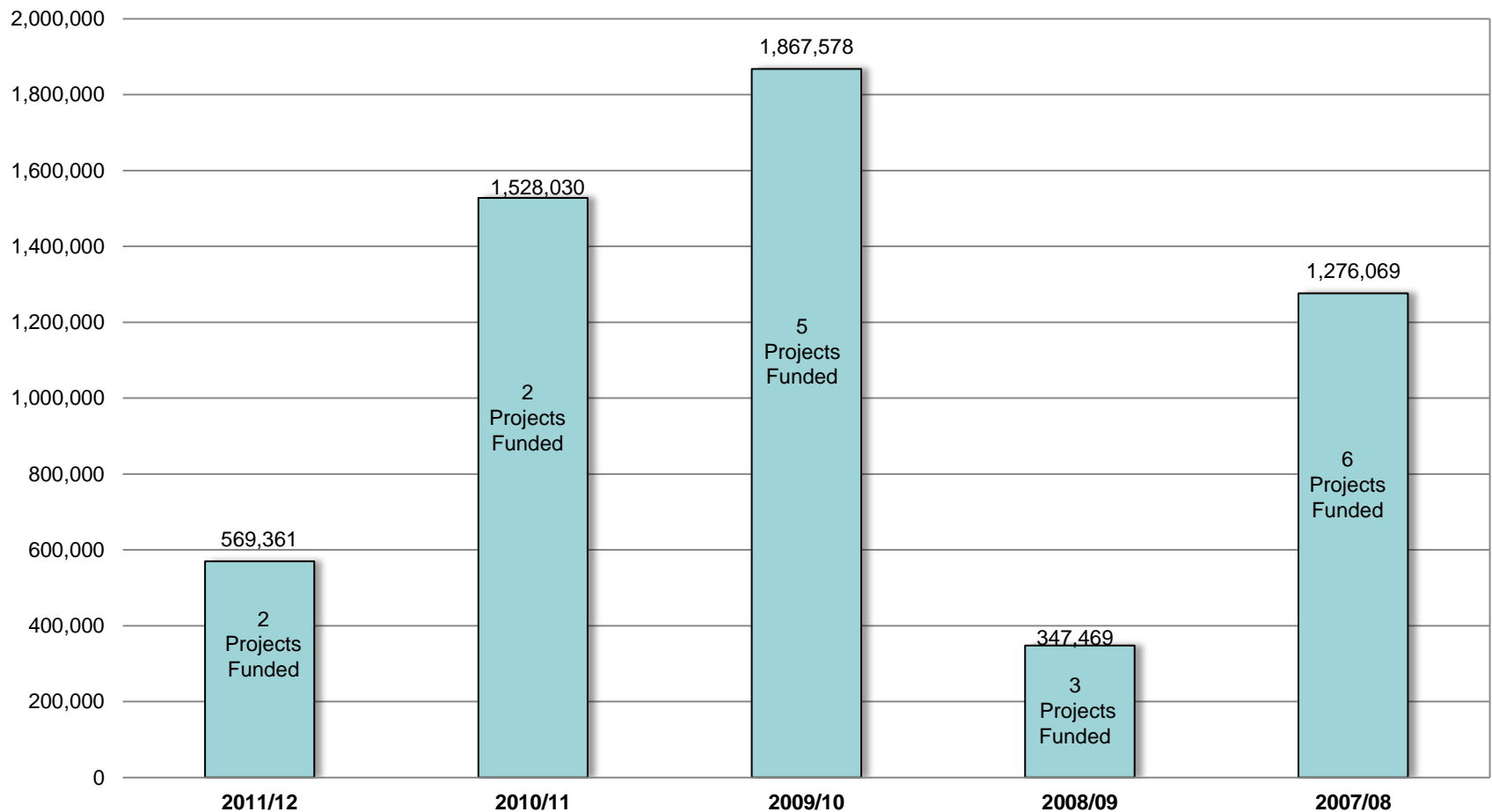
Tri-Council Funding

(10 year summary)



Canadian Foundation for Innovation (CFI) Funding Program

Canadian Foundation for Innovation (CFI) Funding (5 year summary)



Canada Research Chairs (CRC)

thinking forward

Canada Research Chairs (CRC)

(2011/12 summary)

The University of Windsor received approximately \$1.66M for 14 of its active Canada Research Chairs in 2011-12. Two of the 14 Chairs completed their terms during the 2011-12 fiscal year. Two of the 16 Chairs listed below have been phased out through a re-allocation process, but have received continued support from the University of Windsor to the end of their terms. During the 2011-12 fiscal year, Drs. Steven Palmer (History) and Aaron Fisk (GLIER) were successful in the renewal of their Tier 2 Chairs for a second five-year term.

Name	Department/ Faculty	Canada Research Chair in...	Tier
Lori Buchanan	Psychology	Psycholinguistics	2
Hoda ElMaraghy	Industrial & Manufacturing Engineering	Manufacturing Systems	1
Aaron Fisk	Great Lakes Institute for Environmental Research	Trophic Ecology	2
Robin Gras	Computer Science	Heuristics for Bioinformatics	2
Daniel Green	Mechanical Automotive & Materials Eng.	Development & Optimization of Metal Forming Processes	2
G. Douglas Haffner	Great Lakes Institute for Environmental Research	Great Lakes Environmental Health	1
Daniel Heath*	Great Lakes Institute for Environmental Research	Conservation Genetics	2
Susan Ilcan**	Sociology, Anthropology, Criminology	Social Justice & Globalization Studies	2
Narayan Kar	Electrical & Computer Eng.	Hybrid Drivetrain Systems	2
Jerald Lalman	Civil & Environmental Eng.	Environmental Biotechnology	2
Stephen Loeb	Chemistry & Biochemistry	Supramolecular Chemistry & Functional Materials	1
Eleanor Maticka-Tyndale	Sociology, Anthropology, Criminology	Social Justice & Sexual Health	1
Steven Palmer	History	The History of International Health	2
Jeremy Rawson	Chemistry & Biochemistry	Molecular Materials	1
Johnathan Wu	Electrical & Computer Eng.	Automotive Sensors and Information Systems	1
Ming Zheng	Mechanical Automotive & Materials Eng.	Clean Diesel Engine Technologies	2

*Term completed June 30, 2011

**Early Termination as of August 31, 2011

Internal Grant Funding Program

thinking forward

Internal Grants Program

(5 year summary – awarded cash)



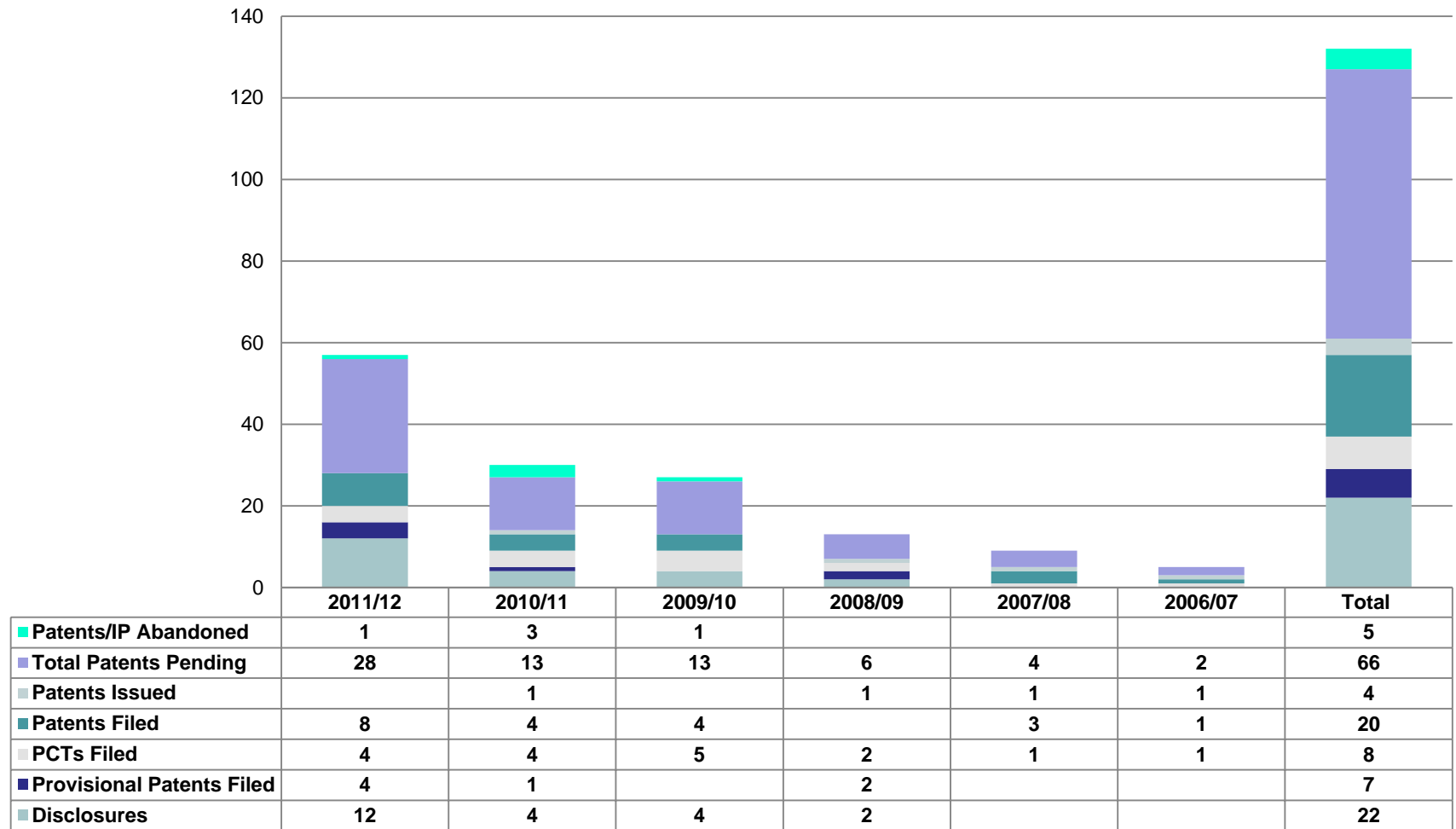


Intellectual Property Management, Technology and Knowledge Transfer

thinking forward

Total Patents Pending

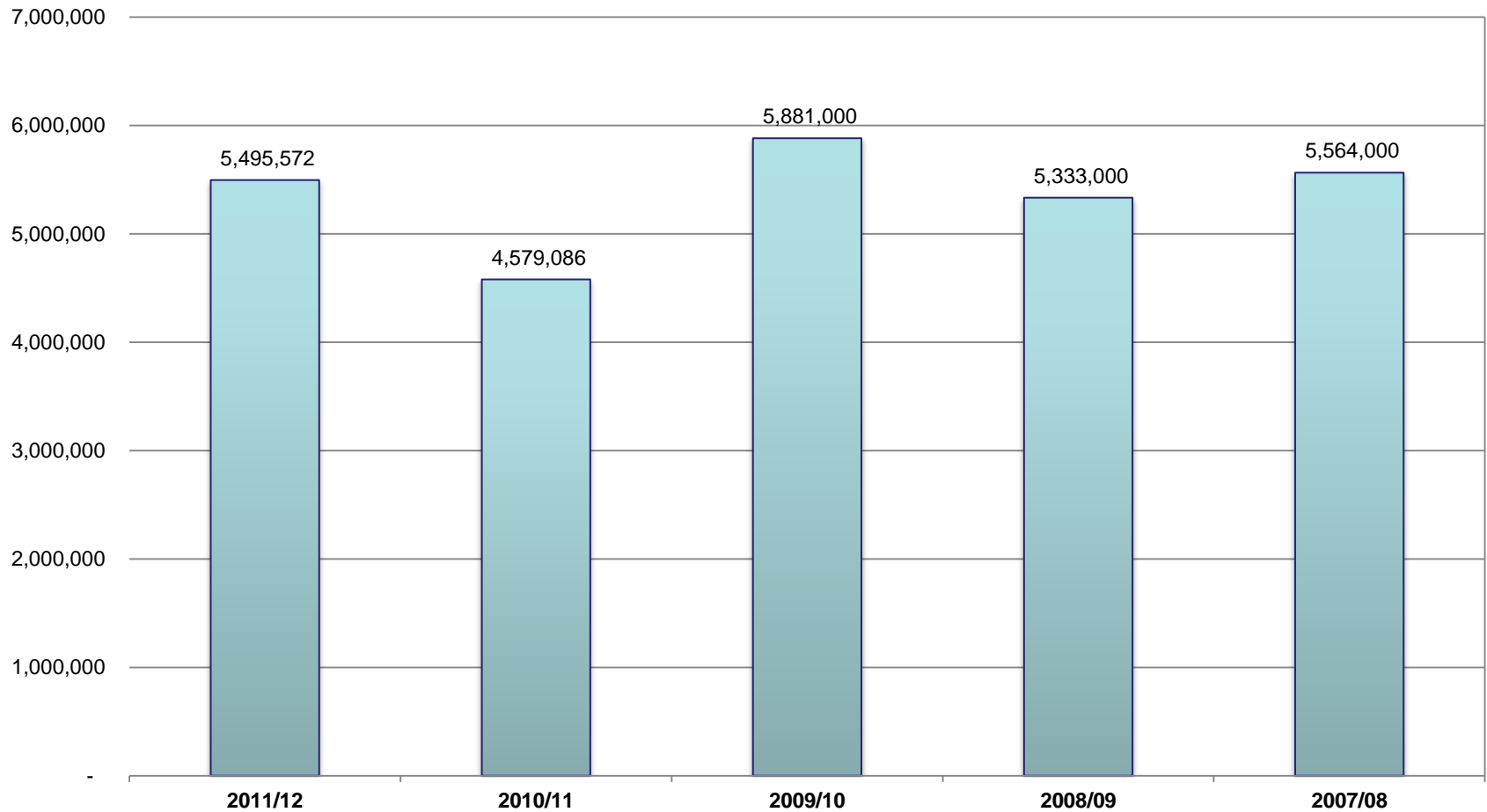
(5 year summary)



Research Contract Statistics

Total Contract Revenue

(5 year summary)



Research Ethics and Biosafety

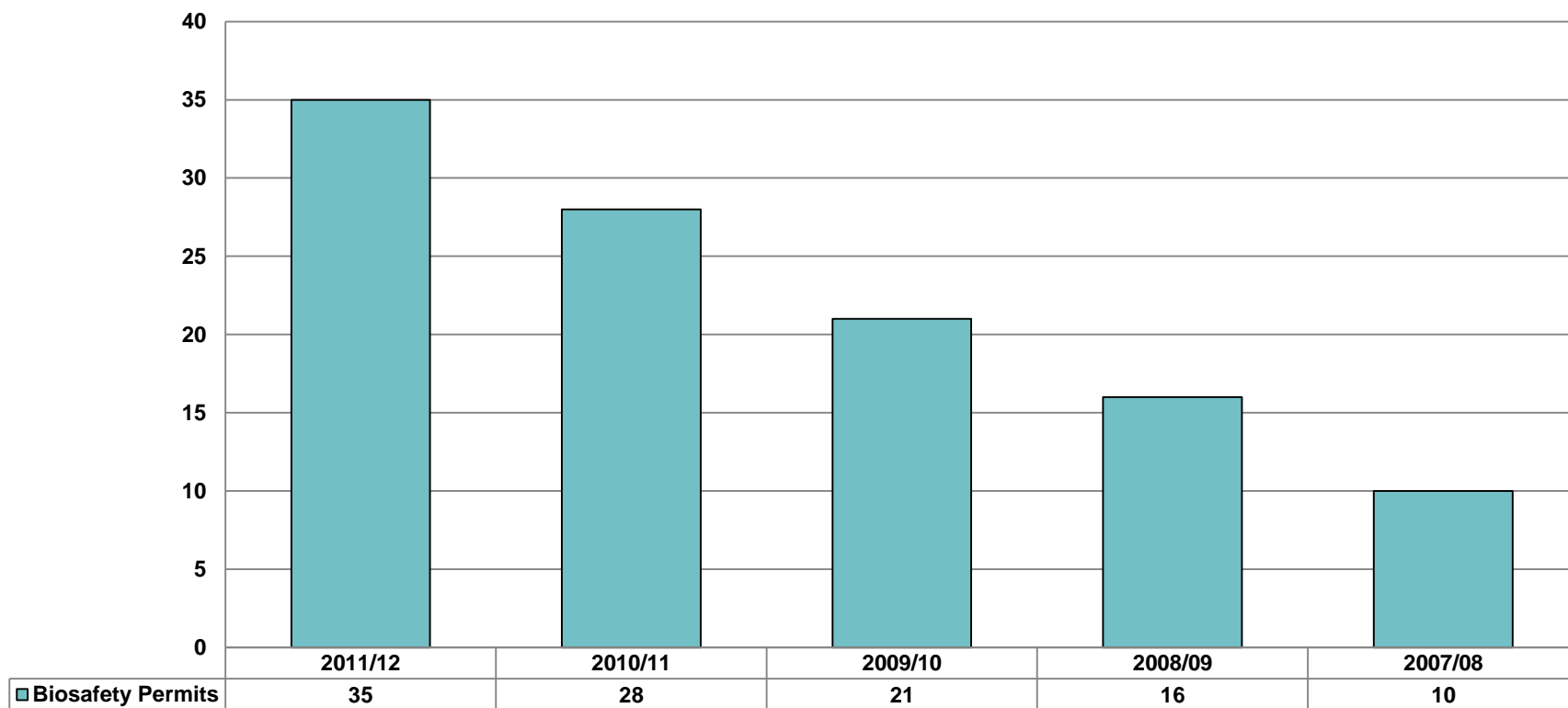
thinking forward

Biosafety Active Permits

(5 year summary)

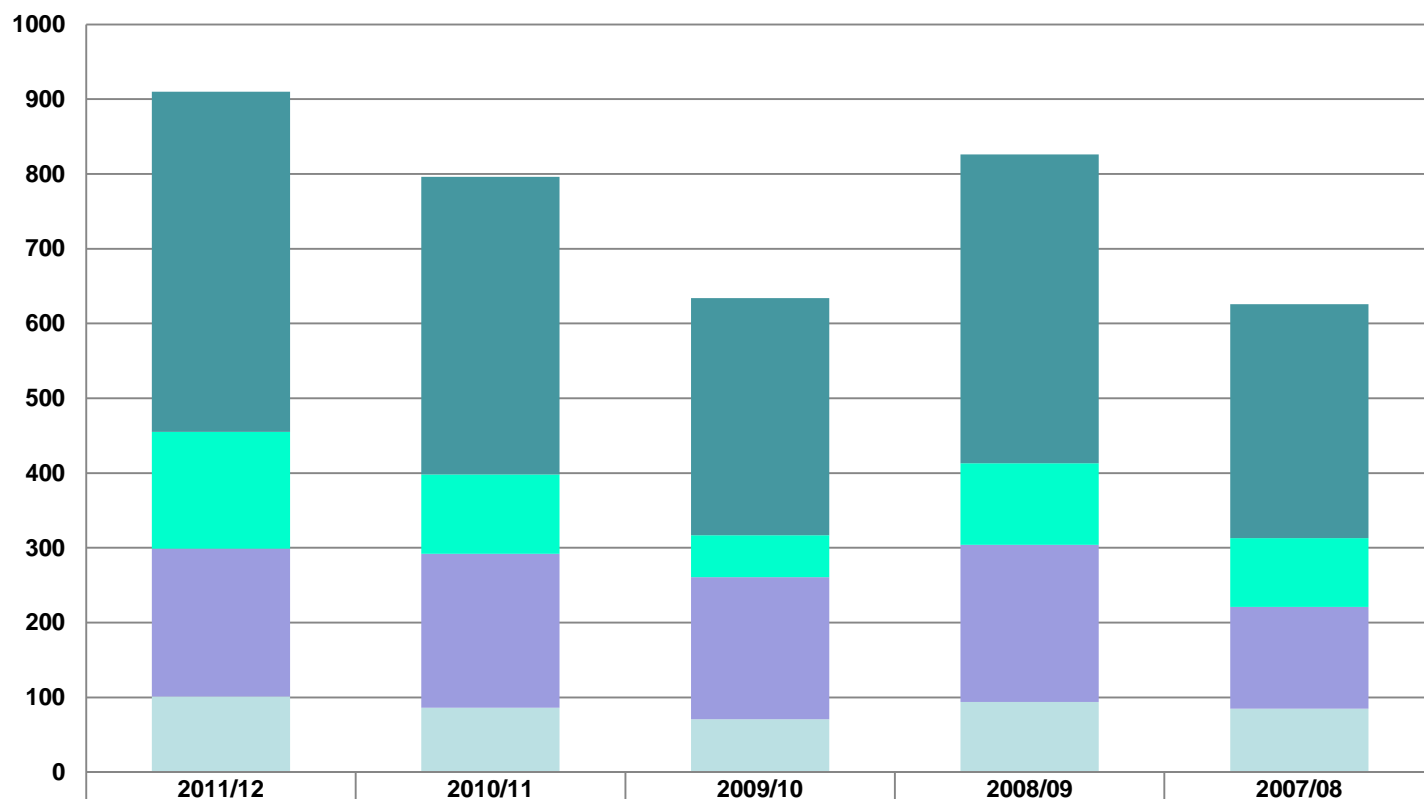
The Research Safety Committee (RSC) oversees all matters pertaining to biosafety at U Windsor.

The Chemical Control Centre is responsible for administering the Biosafety program on a day-to-day basis, for providing technical advice on safety procedures and equipment and relevant regulations. Biosafety Permit metrics for the calendar year 2007/08 – 2011/12 metrics are shown in the following table.



Research Ethics Board

(reporting 5 year summary)

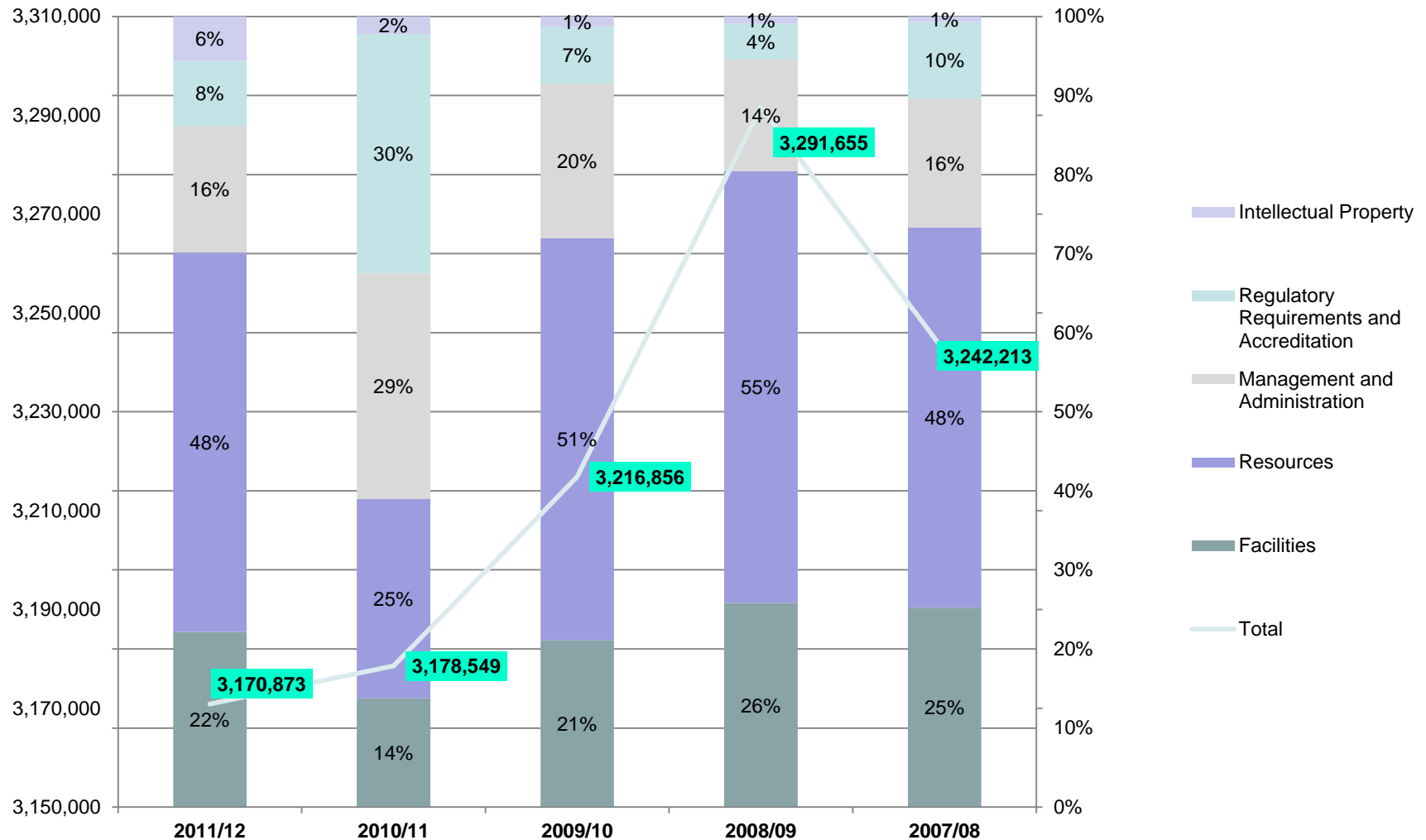


■ TOTALS	455	398	317	413	313
■ Progress Reports Processed	156	106	56	109	92
■ Final Reports Processed	198	206	190	210	136
■ Request to Revise	101	86	71	94	85

Federal Indirect Costs Program

Indirect Costs of Research

(5 year summary)



Indirect Costs of Research

(2011/12)

Indirect Costs of Research

The Indirect Costs of Research program provides funding for research facilities, resources, management and administration, regulatory requirements and accreditation and intellectual property management. The amount U Windsor receives from this program is contingent on our level of Tri- Council funding based on a three-year rolling average. The university's allocation for the 2011/12 fiscal year is **\$3,170,873**.

