

**Worcester Polytechnic Institute
Proposals Submitted by Department (FY 2009)**

Date: **July 2008**

Fiscal Year: **2008-2009**

	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Cumulative
Biology and Biotechnology	4												4
	3,962,154												3,962,154
Biomedical Engineering	2												2
	579,137												579,137
Bioengineering Institute													0
													0
Civil and Envir Engr	1												1
	139,951												139,951
Chemistry and Biochemistry	1												1
	786,119												786,119
Chemical Engineering													0
													0
Computer Science	2												2
	637,144												637,144
Electrical and Computer Engr	5												5
	1,773,802												1,773,802
Fire Protection Engineering	2												2
	515,135												515,135
Humanities and Arts	1												1
	417,540												417,540
Interdisciplinary and Global	1												1
	6,500												6,500
Mathematical Science													0
													0
Mechanical Engineering													0
													0
Management													0
													0
Social Science & Policy Studies													0
													0
Physics	1												1
	275,628												275,628
Other	1												1
	9,109												9,109
SUBTOTALS	21	0	0	0	0	0	0	0	0	0	0	0	21
	\$9,102,219	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,102,219
Add: Earmarks													0
													0
TOTALS	21	0	0	26	0	0	0	0	0	0	0	0	21
	\$9,102,219	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,102,219

08/08/08 kr

**Worcester Polytechnic Institute
Proposals Submitted by Department (FY 2008)**

Date: **July 2008**

Fiscal Year: **2007-2008**

	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Cumulative
Biology and Biotechnology	1												1
	33,272												33,272
Biomedical Engineering	2												2
	885,949												885,949
Bioengineering Institute													0
													0
Civil and Envir Engr													0
													0
Chemistry and Biochemistry	1												1
	1,156,495												1,156,495
Chemical Engineering	4												4
	1,369,614												1,369,614
Computer Science	4												4
	2,921,249												2,921,249
Electrical and Computer Engr	2												2
	854,359												854,359
Fire Protection Engineering	1												1
	479,095												479,095
Humanities and Arts													0
													0
Interdisciplinary and Global													0
													0
Mathematical Science	2												2
	1,476,903												1,476,903
Mechanical Engineering	7												7
	2,489,649												2,489,649
Management													0
													0
Social Science & Policy Studies													0
													0
Physics													0
													0
Other													0
													0
SUBTOTALS	24	0	0	0	0	0	0	0	0	0	0	0	24
	\$11,666,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,666,585
Add: Earmarks													0
													0
TOTALS	24	0	0	0	0	0	0	0	0	0	0	0	24
	\$11,666,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,666,585

08/07/08 kr

9/18/2008

**Worcester Polytechnic Institute
Proposals Submitted by Department (12 Month Report Through July 2008)**

Date: July 2008

Fiscal Year: 2008-2009

08/08/08 kr

	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jun-08	Cumulative
Biology and Biotechnology		3	2	2		5	2	3	1	1	4	4	27
		446,967	889,027	66,907		1,154,895	302,520	267,789	30,029	640,952	944,176	3,962,154	8,705,416
Biomedical Engineering	1	1	2	2		3	1	1	3		6	2	22
	16,518	296,274	411,660	583,409		530,527	2,000	235,800	241,399		864,223	579,137	3,760,947
Bioengineering Institute	1	1	1	1				1					5
	81,944	149,971	711,868	800,350				25,000					1,769,133
Civil and Envir Engr		3	2	2	1		5	1	2	3	1	1	21
		443,391	236,275	348,125	74,916		943,450	243,132	365,809	216,337	26,953	139,951	3,038,339
Chemistry and Biochemistry	1					1				2	3	1	8
	60,005					90,000				846,754	2,206,455	786,119	3,989,333
Chemical Engineering			2	3			6	1		3	2		17
			1,507,787	315,890			1,503,718	33,514		453,359	479,532		4,293,800
Computer Science	1	2	1	4	8	6		5	1	4	3	2	37
	98,247	491,945	5,708	1,943,701	3,551,023	5,648,628		12,761,540	1,499,850	1,060,535	1,419,176	637,144	29,117,497
Electrical and Computer Engr	1	2	1		1	1	1	9		2		5	23
	44,912	109,127	414,697		328,714	42,936	375,805	2,259,278		115,229		1,773,802	5,464,500
Fire Protection Engineering	1	1	1				2	1		1		2	9
	599,640	19,867	179,467				146,386	47,822		1,533,121		515,135	3,041,438
Humanities and Arts												1	1
												417,540	417,540
Interdisciplinary and Global	2									1		1	4
	166,573									149,830		6,500	322,903
Mathematical Science		1	2	2	1	4	2		1	1	3		17
		62,712	957,434	676,245	296,715	975,421	1,076,325		599,399	759,434	156,116		5,559,801
Mechanical Engineering	1	6	7	1	1	5	4	7	3	6	8		49
	73,643	1,032,447	2,660,889	13,050	334,152	1,089,511	1,062,162	772,407	2,531,471	1,594,635	1,347,305		12,511,672
Management		1	2			1	1			1	1		7
		69,983	444,991			497,035	749,985			50,000	40,502		1,852,496
Social Science & Policy Studies		1											1
		50,912											50,912
Physics	1		2	3	1	1	4	1	1		2	1	17
	89,998		560,764	689,084	512,179	233,194	646,050	31,168	11,250		119,870	275,628	3,169,185
Other			1					1	1			1	4
			14,000					30,000	10,000			9,109	63,109
SUBTOTALS	10	22	26	20	13	27	28	31	13	25	33	21	269
	\$1,231,480	\$3,173,596	\$8,994,567	\$5,436,761	\$5,097,699	\$10,262,147	\$6,808,401	\$16,707,450	\$5,289,207	\$7,420,186	\$7,604,308	\$9,102,219	\$87,128,021
Add: Earmarks							2						2
							1,708,000						1,708,000
TOTALS	10	22	26	20	13	27	30	31	13	25	33	21	271
	\$1,231,480	\$3,173,596	\$8,994,567	\$5,436,761	\$5,097,699	\$10,262,147	\$8,516,401	\$16,707,450	\$5,289,207	\$7,420,186	\$7,604,308	\$9,102,219	\$88,836,021

Worcester Polytechnic Institute
Report of Proposals Submitted
July 2008

Department	Principal Investigator	Co-PI	Project Title	Sponsor	Prime Sponsor (if Sub)	Program Type	Amount Requested	Cost Sharing	Voluntary Uncommitted CS	Proposal #
Academic Affairs	Cyr, M.		GK-12 Grantees Workshop for Dissemination of Curriculum through the TeachEngineering Digital Library	University of Colorado, Boulder	NSF	Conference/Travel	9,109	0		9018
Subtotal: 1							9,109	0	0	
Biology and Biotechnology	Dominko, T.	Page, R.	Mammalian Limb Restoration	CellThera, Inc.	Univ. of Pittsburgh School of Medicine	Research	348,023	38,435		8257
		Page, R.	Regeneration Competent IPC Transplant	CellThera, Inc.	DARPA	Research	285,537	15,034		9014
		Prusty-Rao, R.	CAREER: Investigating the Role the Secondary Metabolite, Indole Acetic Acid as a Signal that Regulates Fungal Pathogenesis	NSF		Research	504,188	0	55,102	9010
		Weathers, P.	Wobbe, K.	Plant Production Platforms for Artemisinin to Treat Malaria and Four Other Neglected Tropical Diseases	NIH		Research	2,824,406	0	
Subtotal: 4							3,962,154	53,469	55,102	
Biomedical Engineering	Mendelson, Y.		Advanced Technology for Real-Time Diagnosis of Tissue Repair Hypoxia in Combat Casualty Care	Streamline Automation LLC	Army	Research	514,026	0	52,659	9001
		Mendelson, Y.	Particle Filtering for Wearable Medical Sensors	NIH		Research	65,111	0	8,563	9002
Subtotal: 2							579,137	0	61,222	
Chemistry and Biochemistry	Yu, W.		Crystallization, Synthesis, and Surface Functionality Control of High Quality Solution Dispersible Nanocrystals	NSF		Research	786,119	0	96,965	9006
Subtotal: 1							786,119	0	96,965	
Civil and Environmental Engineering	Tao, M.		Evaluation of Warm Mix Asphalt Concrete Pavement in South Dakota Conditions	South Dakota Dept. of Transportation		Research	139,951	0		9020
Subtotal: 1							139,951	0	0	
Computer Science	Heffernan, N.		High School Mathematics Professional Development on Using Data to Drive Instruction Supported by a Web-based Intelligent Tutoring System	Davis (Arthur Vining) Foundations		Other	142,514	104,455		9003
		Lindeman, R.	CAREER: Effective Use of Haptics in Real, Virtual, and Teleoperated Environments	NSF		Research	494,630	0	43,067	9015
Subtotal: 2							637,144	104,455	43,067	
Electrical and Computer Eng'g.	Duckworth, J.	Cyganski, D.	Testing and Evaluation of First Responder Indoor Location Technology	Army		Research	881,053	0	34,746	9005
		Huang, X.	CAREER: Bringing Cognitive Wireless Networks into Reality: A Reconfigurable Systems Approach	NSF		Research	423,125	0	44,608	9012
		Klein, A.	CAREER: Adaptive Algorithms and Theory for Exploiting Frequency Selectivity in Half-Duplex Relay Networks	NSF		Research	433,671	0	43,067	9007
		Makarov, S.	Small Assay Design	Lawrence Livermore National Laboratory	DOE	Research	22,255	11,617		9013
		Makarov, S.	Calibration Tests of a Low-Multipath Antenna for Reception of Modernized GPS and Galileo	Physical Sciences, Inc. (PSI)	NSF	Research	13,698	0		9017
Subtotal: 5							1,773,802	11,617	122,421	
Fire Protection Eng'g.	Meacham, B.	Proulx, G.	SGER: Collection of Data on Fire at Faculty of Architecture Building, Technical University at Delft	NSF		Research	15,220	0		9004
		Rangwala, A.	CAREER: Controlling Mechanisms of Dust Layer Ignition and Flame Propagation in Dust Clouds	NSF		Research	499,915	0	44,609	9019
Subtotal: 2							515,135	0	44,609	
Humanities and Arts	Clark, C.		Seeing for Ourselves: Vernacular Science and History Laboratories	NSF		Research	417,540	0		9008
Subtotal: 1							417,540	0	0	

Worcester Polytechnic Institute
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July 2008

Interdisciplinary & Global Studies	DiBiasio, D.		Cooperative Agreement with Consumer Product Safety Commission - IQP Project Center	Consumer Product Safety Commission		Education/ Training	6,500	0		9016
Subtotal: 1							6,500	0	0	
Physics	Zozulya, A.		Precision Cold Atom Clocks	Teledyne Scientific & Imaging, LLC	DARPA	Research	275,628	0		9009
Subtotal: 1							275,628	0	0	
Total: 21							9,102,219	169,541	423,386	

**Worcester Polytechnic Institute
Awards Received by Department (FY 2009)**

Date: July 2008

Fiscal Year: 2008-2009

	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Cumulative
Biology and Biotechnology	1 293,745												1 293,745
Biomedical Engineering	2 164,980												2 164,980
Bioengineering Institute													0 0
Civil and Envir Engr													0 0
Chemistry and Biochemistry	1 169,933												1 169,933
Chemical Engineering	2 278,341												2 278,341
Computer Science	3 777,475												3 777,475
Electrical and Computer Engr													0 0
Fire Protection Engineering	3 247,099												3 247,099
Humanities and Arts													0 0
Interdisciplinary and Global													0 0
Mathematical Science													0 0
Mechanical Engineering	3 132,367												3 132,367
Management													0 0
Social Science & Policy Studies													0 0
Physics													0 0
Other													0 0
SUBTOTALS	15 \$2,063,940	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	15 \$2,063,940
Add: Earmarks													0 \$0
TOTALS	15 \$2,063,940	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	0 \$0	15 \$2,063,940

**Worcester Polytechnic Institute
Awards Received by Department (FY 2008)**

Date: July 2008

Fiscal Year: 2007-2008

	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Cumulative
<i>Biology and Biotechnology</i>													0
													0
<i>Biomedical Engineering</i>													0
													0
<i>Bioengineering Institute</i>													0
													0
<i>Civil and Envir Engr</i>													0
													0
<i>Chemistry and Biochemistry</i>													0
													0
<i>Chemical Engineering</i>	2												2
	284,900												284,900
<i>Computer Science</i>	2												2
	572,896												572,896
<i>Electrical and Computer Engr</i>	2												2
	220,926												220,926
<i>Fire Protection Engineering</i>													0
													0
<i>Humanities and Arts</i>													0
													0
<i>Interdisciplinary and Global</i>	1												1
	60,733												60,733
<i>Mathematical Science</i>													0
													0
<i>Mechanical Engineering</i>	3												3
	183,071												183,071
<i>Management</i>													0
													0
<i>Social Science & Policy Studies</i>													0
													0
<i>Physics</i>													0
													0
<i>Other</i>	1												1
	66,212												66,212
SUBTOTALS	11	0	0	0	0	0	0	0	0	0	0	0	11
	\$1,388,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,388,738
Add: Earmarks													0
													\$0
TOTALS	11	0	0	0	0	0	0	0	0	0	0	0	11
	\$1,388,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,388,738

Worcester Polytechnic Institute
Awards Received by Department (12 Month Report Through July 2008)

Date: **July 2008**


Fiscal Year: **2008-2009**

	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Cumulative
Biology and Biotechnology						1	1	1	2	1	1	1	8
						212,112	74,237	295,385	60,000	122,231	6,125	293,745	1,063,835
Biomedical Engineering	2				1	1	1				2	2	9
	223,880				59,299	2,191	24,527				130,000	164,980	604,877
Bioengineering Institute													0
													0
Civil and Envir Engr	1	1							1	1			4
	61,960	10,125							88,372	150,000			310,457
Chemistry and Biochemistry	1						1		1			1	4
	60,005						55,646		180,000			169,933	465,584
Chemical Engineering	1				1	3	1	1		2	1	2	12
	380,048				10,000	256,615	49,936	5,000		475,001	33,514	278,341	1,488,455
Computer Science	1	1	2	1		1	1	2	1	1	3	3	17
	13,500	19,500	176,863	95,492		15,000	25,000	413,731	58,635	122,785	380,437	777,475	2,098,418
Electrical and Computer Engr	3	1	2			3	1		1	2	3		16
	1,275,169	79,127	51,000			223,889	42,936		11,980	112,000	346,479		2,142,580
Fire Protection Engineering			1				1	1		1		3	7
			282,517				19,867	14,000		7,515		247,099	570,998
Humanities and Arts													0
													0
Interdisciplinary and Global	1												1
	6,000												6,000
Mathematical Science	2		1				1	2	1				7
	155,204		37,321				30,109	450,528	62,712				735,874
Mechanical Engineering	1	4	1	1	4	3	1	1		2	3	3	24
	60,000	298,900	107,000	15,000	169,482	173,051	34,000	70,000		10,000	108,844	132,367	1,178,644
Management											1		1
											87,000		87,000
Social Science & Policy Studies	1												1
	675,888												675,888
Physics	2			1		1	1	1		1	2		9
	210,000			30,001		29,665	59,997	31,168		7,615	35,625		404,071
Other		4	1						1		1		7
		842,525	14,000						1,000		69,993		927,518
SUBTOTALS	16	11	8	3	6	13	10	9	8	11	17	15	127
	\$3,121,654	\$1,250,177	\$668,701	\$140,493	\$238,781	\$912,523	\$416,255	\$1,279,812	\$462,699	\$1,007,147	\$1,198,017	\$2,063,940	\$12,760,199
Add: Earmarks		1							1		1		3
		\$839,000							\$848,000		\$860,000		\$2,547,000
TOTALS	16	12	8	3	6	13	10	9	9	11	18	15	130
	\$3,121,654	\$2,089,177	\$668,701	\$140,493	\$238,781	\$912,523	\$416,255	\$1,279,812	\$1,310,699	\$1,007,147	\$2,058,017	\$2,063,940	\$15,307,199

**Worcester Polytechnic Institute
Report of Awards Received
July 2008**

Department	Principal Investigator	Co-PI	Project Title	Sponsor	Prime Sponsor (if Sub)	Award Action	Amount Awarded	Cost Sharing	Voluntary Uncommitted CS	Program Type	Proposal #
Biology and Biotechnology	Dominko, T.		De-Differentiating Adult Human Fibroblasts into Stem-Like Cells Using Defined Conditions	NIH		New	293,745	0		Research	8074
Subtotal: 1							293,745	0	0		
Biomedical Engineering	Billiar, K.	Rolle, M.	REU Site: Integrated Bioengineering Research, Education, and Outreach Experiences for Females and Underrepresented Minorities at WPI	NSF		Competing Renewal	97,390	0		Education/ Training	05023cr1
	Sotak, C.		MR Signal Amplification for Receptor Imaging	Univ. of Massachusetts Medical School	NIH	Con't.	67,590			Research	7151
Subtotal: 2							164,980	0	0		
Chemical Engineering	Zhou, S.		BRIGE: Understanding and Development of Bioseparation and Biosensing Schemes	NSF		New	174,919	0	16,162	Research	8134
	Zhou, S.		Bimetallic Magnetic Nanoparticle-Based Bioseparation	Harbin Haixun Science and Technology Trade Co., Ltd.		New	103,422	0	17,122	Research	8196
Subtotal: 2							278,341	0	33,284		
Chemistry and Biochemistry	Kaminski, G.		Protein Simulation with a Fast Polarizable Force Field	NIH		New	169,933	0	27,646	Research	8248
Subtotal: 1							169,933	0	27,646		
Computer Science	Fisler, K.		From Informal Specifications to RTL Assertions for Bus Protocols	NSF		New	300,000	0	30,934	Research	8096
	Rich, C.		Engagement and Collaboration in Human-Robot Interaction	NSF		New	449,821	0		Research	8097
	Rundensteiner, E.		Data Interpretation	MIT	Air Force	New	27,654	0		Research	8255
Subtotal: 3							777,475	0	30,934		
Fire Protection Eng'g.	Dembsey, N.		Collaborative Applied Fire Research - Verifying and Improving Nascent Arup Methodology for Flame Spread Modeling	Arup	Arup	Con't.	36,000	0		Research	8157
	Dembsey, N.		Development of Guidelines for Obtaining Material Parameters for Input into Fire Models	NIST		New	199,722	0		Research	8025
	Meacham, B.	Proulx, G.	SGER: Collection of Data on Fire at Faculty of Architecture Building, Technical University at Delft	NST		New	11,377	0		Research	9004

**Worcester Polytechnic Institute
Report of Awards Received
July 2008**

Subtotal: 3						247,099	0	0		
Mechanical Engineering	Backman, D.		Support of NWSC's Program to Develop an Accelerated Insertion of Material (AIM) System	Naval Surface Warfare Center		New	22,364	0		Research 8200
	Pryputniewicz, R.		International Symposium to Commemorate the 60th Anniversary of the Invention of Holography	NSF		New	10,000	0		Conference/Travel 8229
	Pryputniewicz, R.		OELIM Support for the Development of Navigation-Grade Integrated Micro Gyroscope (NGIMG).	Boeing Company	DARPA	Competing Renewal	100,003	0		Research 07161r1
Subtotal: 3						132,367	0	0		
 Total: 15						2,063,940	0	91,864		