

## **Research & Technology Transfer Report**

Board of Regents Meeting, March 2008

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Under Policy 401 of the Board of Regents, The University of Montana – Missoula and Montana State University – Bozeman are required to meet the following reporting elements:

Federal Initiatives Report. Targeted federal initiative funds (commonly referred to as “earmarks”) are funds included in federal appropriations requested by members of Congress to fund specific projects or programs. To keep the regents informed of these funding requests, UM-Missoula and MSU-Bozeman, as representatives of the affiliated campuses, shall coordinate requests for federal initiatives for their affiliated campuses and shall each submit to the Commissioner of Higher Education a report of the requests for any non-competitive federal funds which the units anticipate submitting to Montana’s congressional delegation for inclusion in the federal budget. The report will be submitted before the January board meeting unless otherwise scheduled by the board.

Reports. Annually, at the September regents’ meeting, UM-Missoula and MSU-Bozeman, as representatives of the affiliated campuses, shall submit to the Commissioner of Higher Education a report summarizing the research and technology transfer activities for the previous fiscal year. The report shall contain, at a minimum, the following data for the previous fiscal year:

1. All expenditures from grants and contracts managed by the respective research administrative offices;
2. Number of new invention disclosures filed;
3. Number of new start-up companies which have licensed or commercialized university-developed intellectual property;
4. Number of new intellectual property licenses issued;
5. Total intellectual property licenses in effect at the close of the fiscal year;
6. Total gross revenues from intellectual property licenses; and
7. Assessment of progress toward meeting the goals pertaining to technology transfer outlined in the campus strategic plans.

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### The University of Montana

#### FEDERAL INITIATIVES, FY09

##### Commerce, Justice, Science, and Related Agencies

- Montana Youth Empowerment Project  
*\$1.3 million in the DoJ Community Oriented Policing Services account for this legacy program)*

##### Defense

- Amelioration of Military Hearing Loss  
*\$1 million in Navy RDT&E to continue this legacy program*
- Defense-Critical Languages and Cultures Program  
*\$2.5 million in Defense-Wide Operations and Maintenance to continue this legacy program*
- Improving Mission Preparedness and Operational Fitness for Battlefield Airmen  
*\$2.5 million in Air Force Special Operations Command for this new start*
- Montana Alternative Energy Generation (MAEG)  
*\$5.65 million in Army Missile Defense Systems Integration*
- Living Well with a Disability: Extending Health Promotion to Veterans with Disabilities  
*\$1 million for this new start*

##### Energy & Water Development

- Small Molecule Therapies for Neurologic Disorders  
*\$2 million for this new start*

##### Interior

- National Center for Landscape Fire Analysis  
*\$3 million in the Forest Service to continue this legacy program*
- Genomics and Conservation Project  
*\$1.5 million*

##### Labor, Health and Human Services and Education

- Methamphetamine Detection and Health Effects Research Program  
*\$500,000 to continue this legacy project*
- Wildfire Smoke Health Effects Research Program  
*\$500,000 for this new start*

##### Transportation, Treasury, HUD

- Montana Stagecoach Science Experience  
*\$1 million for this new start*

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**The University of Montana**

<b>Data Elements for MUS Policy</b>	<b>FY 2006</b>	<b>FY 2007</b>
R&D Expenditures (same data reported to NSF)	\$60,070,832	\$62,119,445
Number of new invention disclosures filed	10	5
Number of new start-up companies which have licensed or commercialized university-developed intellectual property	0	1
Number of new intellectual property licenses issued	2	1
Total intellectual property licenses in effect at the close of the fiscal year	22	23
Total gross revenues from intellectual property licenses	\$0	\$0

<b>Data Elements for Strategic Plan</b>	<b>FY 2006</b>	<b>FY 2007</b>
Patents Issued	22	28
Active Licenses (Total)	23	24
Active Licenses (MT Companies)	14	15
Percent Licenses w/ MT Companies	64%	63%
License/Patent Revenues	\$0	\$0
Reimbursed Patent Costs from Licenses	\$0	\$0

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**Montana State University**

<b>AGRICULTURE</b>	<u>CAMPUS</u>	<u>REQUEST</u>
Continuation Requests		
Animal Biosciences Facility	Bozeman	\$16,000,000
Barley for Rural Development	Bozeman	\$1,000,000 *
Montana Beef Network	Bozeman	\$1,000,000 *
Joe Skeen Institute for Rangeland Restoration	Bozeman	\$1,500,000 *
New Requests		
Ag Tech-Increasing Rural Prosperity with Innovative Agriculture-Related Technologies	Bozeman	\$2,000,000
Targeted Grazing For Managing Invasive Plants	Bozeman	\$500,000
 <b>COMMERCE, JUSTICE AND SCIENCE</b>		
Continuation Requests		
Academic and Workforce Development Program- Montana Women's Prison	Billings	\$350,000
 <b>DEFENSE</b>		
Continuation Requests		
MilTech Extension — Transitioning Innovative Technology to the US Military	Bozeman	\$2,000,000
Adjuvants that Enhance Natural Resistance Against Mucosal Pathogens	Bozeman	\$2,000,000
New Requests		
Acoustic Surveillance and Training Assessment	Bozeman	\$750,000
Lightweight uninterrupted power for warfighter application	Bozeman	
Development of Topical Anti-Infective to Treat Complex Military Wounds, with Broad Civilian Applications	Bozeman	\$2,500,000
Dual-Use Polarization Sensing for Advanced Military Applications	Bozeman	\$1,500,000
Improve Stored Blood for Healthful Transfusion: Diagnostics and Therapeutics of Nitric Oxide Deficits	Bozeman	\$3,000,000
 <b>ENERGY AND WATER</b>		
Continuation Requests		
Center for Zero Emissions Research and Technology	Bozeman	\$10,000,000 *
High Temperature Electrochemistry Center	Bozeman	\$5,000,000 *

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## New Requests

Montana BioDiesel Initiative	Bozeman	\$3,000,000
Wind Turbine Development	Bozeman, Billings, Northern	\$1,000,000

**FINANCIAL SERVICES**

## New Requests

Center for Entrepreneurship for the New West: “Effecting Economic Development by Training the Next Generation of Montana Entrepreneurs”	Bozeman	\$600,000
University Centers to Increase SBIR Commercialization Success	Bozeman	\$1,000,000
Bio-Products — Development and Commercialization	Bozeman	\$400,000

**HOMELAND SECURITY**

## New Requests

Rural Public Safety Communications Test-Bed	Bozeman	\$2,000,000
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**INTERIOR AND ENVIRONMENT**

## Continuation Requests

Wildlife Health Center: Chronic Wasting Disease	Bozeman	\$500,000
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## New Requests

Airborne Optical Detection of Invasive Species at Yellowstone Lake	Bozeman	\$1,000,000
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## Continuation Requests (EPA)

Technical Assistance Center for Small Water Systems	Bozeman	\$500,000
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## New Requests (EPA)

Advanced Monitoring Instruments for Environmental Studies	Bozeman	\$750,000
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**LABOR-HEALTH & HUMAN SERVICES-EDUCATION**

## Continuation Requests

Energy Workforce Training Center	Billings	\$650,000
Health Care Pathways	Billings	\$350,000
Skilled Trades and Technology Training	Billings	\$350,000

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New Requests

American Indian, Hispanic and Minority Student Mentor and Education Support Center	Billings	\$450,000
Discovery of Early Warning Biomarkers & Interventions with Omega 3 Fatty Acids & Exercise Associated with Risk Reduction of Gestational Diabetes in Native American and Control Populations	Bozeman	\$300,000
Engaging Adult Learners	Billings	\$400,000
Growing Highly Qualified Teachers	Billings	\$500,000

**STATE, FOREIGN OPERATIONS**

New Requests (State)

Expansion of University Network for Arabic and Chinese Language and Study Abroad- International Business Conference	Bozeman	\$1,500,000
	Billings	\$250,000

**TRANSPORTATION AND HUD**

New Requests (Transportation)

Rural Emergency Medical Services and Public Safety Responder Driving Research	Bozeman	\$800,000
Western States Road Ecology Initiative	Bozeman	\$1,000,000
Corrosion Research and Education Transportation Test-bed (CRET)	Bozeman	\$800,000

\* Montana State University is the lead on this request, but funding is split with partner institutions

**Montana State University**

Data Elements for MUS Policy	FY 2006	FY 2007
R&D Expenditures	\$103,048,865	\$102,116,323
Number of new invention disclosures filed	32	30
Number of new start-up companies which have licensed or commercialized university-developed intellectual property	5	1
Number of new intellectual property licenses issued	29	35
Total intellectual property licenses in effect at the close of the fiscal year	109	130
Total gross revenues from intellectual property licenses	\$219,931	\$257,621

Data Elements for Strategic Plan	FY 2006	FY 2007
Patents Issued	2	7
Active Licenses (Total)	109	130
Active Licenses (MT Companies)	68	81
Percent Licenses w/ MT Companies	62%	62%
License/Patent Revenues	\$49,949	\$69,165
Reimbursed Patent Costs from Licenses	\$169,982	\$138,562