# Montanalech THE UNIVERSITY OF MONTANA

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# Summer 2011 - Spring 2012 Experiential Learning Survey

Summary Prepared By Montana Tech Career Services

## INTRODUCTION

This annual survey is conducted for the purpose of presenting information reported to Career Services by students who have accepted degree-related work experiences. The data should be viewed only as an informational resource since the responses to requests for information are voluntary and do not reflect information for all students in degree-related work experiences.

This summary is also completed as part of our continued effort to increase and expand our institutional effectiveness.

Degree-Related work experience can be defined as one of the following:
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Experiential Learning:	Experiential learning refers to a work experience where furthering their degree- related knowledge and clarifying career goals are the student's primary objectives.
Со-ор:	Abbreviation for Cooperative Education. A co-op is experiential learning where the student commits full-time to degree-related employment during a regular academic semester in place of attending classes.
Internship:	An internship is experiential learning taken in conjunction with academic credit.
Job Shadow:	While job shadowing a student will observe and shadow an employer during their day-to-day activities without extensive hands-on participation.

This survey and archives of previous surveys are available online at: www.mtech.edu/career/surveys

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**Special Notes:** Some students have reported more than one experience during the reported time so the actual number of reported experiences may be higher than the number of participating students.

Salary computations do not include volunteer experiences or job shadowing opportunities.

Specific information on each of the different colleges can be found online at www.mtech.edu/academics.

Some degrees, i.e. Network Technology, combine the 2 year and 4 year students.

Internship credits are not required by all departments, but are strongly recommended.

# **Insufficient Data (I/D):** To keep salary information confidential, I/D is listed when less than three salaries are reported.

# Montana Tech

# Summary of Summer 2011 through Spring 2012 Experiential Learning

Published: June 2014

# HIGHLIGHTS

TOTAL NUMBER OF PARTICIPATING STUDENTS	<ul> <li>3% College of Technology</li> <li>5% Freshmen</li> <li>12% Sophomores</li> <li>34% Juniors</li> <li>40% Seniors</li> </ul>	TOTAL NUMBER OF PARTICIPATING EMPLOYERS
272	6% Graduates and Post-Bacc	153

HOURLY SALARY INFORMATION	<u>High</u>	Low	Average
College of Letters, Sciences, and Professional Studies	\$ 35.00	\$ 7.35	\$ 12.01
School of Mines & Engineering	. \$ 45.01	\$ 9.00	\$ 20.26
College of Technology	. \$ 22.00	\$ 10.00	\$ 14.67
Graduate School	. \$ 25.00	\$ 10.00	\$ 20.83

GEOGRAPHIC AREA	In-State	Out-of-State
OVERALL	52%	48%
College of Letters, Sciences, and Professional Studies	85%	15%
School of Mines & Engineering	33%	67%
College of Technology	86%	14%
Graduate School	67%	33%

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# SUMMARY BY SCHOOL AND DEGREE AREA

	# Reported		High		Low		verage	# Salaries
College of Letters, Sciences, and Profess	-	die	-		LOW	F	verage	Galaries
Biological Sciences	8	\$	17.00	\$	9.00	\$	12.18	6
Business	° 2	э \$	17.00 I/D	э \$	9.00 I/D	ф \$	12.10 I/D	2
Business & Information Technology	14	Ψ \$	21.00	Ψ \$	9.00	φ \$	12.22	9
- Accounting Option	6	\$	14.00	\$	9.00	\$	10.00	5
- Management Option	8	\$	21.00	\$	10.00	\$	15.00	4
Chemistry	5	\$	I/D	\$	I/D	\$	I/D	2
Computer Science	8	\$	20.00	\$	10.00	\$	14.00	8
Health Care Informatics	11	\$	11.00	\$	8.00	\$	9.67	6
Liberal Studies	8	\$	I/D	\$	I/D	\$	I/D	2
Mathematical Sciences	1	\$	I/D	\$	I/D	\$	I/D	1
Network Technology	25	\$	35.00	\$	7.35	\$	11.95	17
Pre-Professional Health Science	2	\$	I/D	\$	I/D	\$	I/D	0
Professional & Technical Communication	6	\$	8.50	\$	7.35	\$	7.96	4
Software Engineering	3	\$	I/D	\$	I/D	\$	I/D	1
	93	\$	35.00	\$	7.35	\$	12.01	58
School of Mines & Engineering								
Electrical Engineering	11	\$	23.50	\$	14.00	\$	17.04	10
Environmental Engineering	14	φ \$	23.50 36.54	φ \$	14.00	φ \$	19.46	10
General Engineering	48	Ψ \$	36.00	Ψ \$	9.00	Ψ \$	16.39	44
- Civil Engineering Option	+0 22	Ψ \$	23.00	Ψ \$	10.00	Ψ \$	14.92	20
- Mechanical Engineering Option	20	\$	36.00	\$	9.00	\$	18.70	18
- No Option	20	\$	I/D	\$	1/D	\$	I/D	2
- Welding Engineering Option	4	\$	17.50	\$	11.00	\$	14.88	4
Geological Engineering	3	\$	20.00	\$	12.00	\$	17.00	3
Metallurgical Engineering	13	\$	23.60	\$	15.00	\$	19.71	13
Mining Engineering	20	\$	26.44	\$	10.00	\$	18.96	20
Occupational Safety & Health	28	\$	26.60	\$	9.00	\$	18.60	20
- Applied Health Option	6	\$	20.00	\$	I/D	\$	I/D	20
- No Option	22	\$	26.60	\$	9.00	\$	18.22	18
Petroleum Engineering	43	\$	45.01	\$	11.50	\$	28.79	34
	180	\$	45.01	\$	9.00	\$		158
College of Technology								
• •		^	. /=	•		*		
Accounting Technology	4	\$	I/D	\$	I/D	\$	I/D	1
Civil Engineering Technology	2	\$	I/D	\$	I/D	\$	I/D	2
Drafting Technology	1 7	\$	I/D	\$ \$	I/D	\$	I/D	0
	/	\$	22.00	φ	10.00	\$	14.67	3
Graduate School								
General Engineering	1	\$	I/D	\$	I/D	\$	I/D	1
- No Option	1	\$	I/D	\$	I/D	\$	I/D	1
Geoscience	1	\$	I/D	\$	I/D	\$	I/D	1
- Geology Option	1	\$	I/D	\$	I/D	\$	I/D	1
Industrial Hygiene	4	\$	25.00	\$	21.00	\$	23.33	3
Interdisciplinary	1	\$	I/D	\$	I/D	\$	I/D	0
Mining Engineering	1	\$	I/D	\$	I/D	\$	I/D	0

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Summary Summer 2011 - Spring 2012 Experiential Learning

	#					#
	Reported	High	Low	A	verage	Salaries
Technical Communication	1	\$ I/D	\$ I/D	\$	I/D	1
	9	\$ 25.00	\$ 10.00	\$	20.83	6

#### 153 - NUMBER OF PARTICIPATING EMPLOYERS

#### 272 - TOTAL NUMBER OF PARTICIPATING STUDENTS

- 3% College of Technology
- 5% Freshmen
- 12% Sophomores
- 34% Juniors
- 40% Seniors
- 6% Graduates and Post-Baccalaureates
- 463 NUMBER OF INTERNSHIP CREDITS GENERATED
- 155 NUMBER OF STUDENTS TAKING INTERNSHIP CREDIT
- 26 NUMBER OF LONG TERM OR CO-OP EXPERIENCES

# AVERAGE HOURLY WAGE

OVERALL	\$ 18.07
College of Letters, Sciences, and Professional Studies	\$ 12.01
School of Mines & Engineering	\$ 20.26
College of Technology	\$ 14.67
Graduate School	\$ 20.83

		High - I/D	Low - I/D	Average - I/D	
usiness					2 Reporte
Opportunity (1)	S&K E	nvironmental Restoratio	n		
		nes HealthCare			
Butte (3)		con, Inc. na Resources. LLP			
Bozeman (1)		na State University			
Arlee (1)		nvironmental Restoratio	on		
	Montar	na Fish Wildlife & Parks	;		
Anaconda (2)	Jordan	Contracting, Inc.			
MONTANA (8)					
(1 Volunteer Expe	rience)	High - \$17.00	Low - \$9.00	Average - \$12	18
iological Sc	ences				8 Reporte
Deer Lodge (1)		na Credit Unions for Co			
		ch Federal Credit Union na Credit Unions for Co		nt_\/ITA Program	
Butte (3)		unity Health Center			
MONTANA (4)					
(3 Volunteer Expe	riences)	High - I/D	Low - I/D	Average - I/D	
ccounting T	echno	logy			4 Reporte

#### MONTANA (2)

Butte (1)	Kmart
Winifred (1)	Mid-State Signs

# Business & Information Technology

14 Reported

Accounting Option							
	High - \$14.00	Low - \$9.00	Average - \$10.00				
IONTANA (6)							
Anaconda (1)	Rivers & Rivers CPA's						
Butte (5)	Butte Country Club						
	Newland and Company						
	Office of the State Public Defe	ender (3)					

#### Management Option (2 Volunteer Experiences) High - \$21.00 Low - \$10.00 Average - \$15.00 **MONTANA (7)** Butte (5) **College Pro Painters** Maurices Mercury Street Medical Montana Tech - Business Dept PPL Montana, Inc. Montana Office of Public Instruction Helena (1) Missoula (1) Western States Insurance COLORADO (1) Newmont Mining Corporation, Denver Chemistry 5 Reported (2 Volunteer Experiences) High - I/D Low - I/D Average - I/D **MONTANA (4)** Butte (4) MSE Technology Applications, Inc. (MSE-TA) Rocky Mountain Clinic (2) St. James HealthCare COLORADO (1) National Institute of Standards and Technology (NIST), Boulder **Civil Engineering Technology** 2 Reported High - I/D Low - I/D Average - I/D **MONTANA (1)** Butte (1) Pioneer Technical Services, Inc. Barrick Goldstrike Mines, Elko NEVADA (1) **Computer Science** 8 Reported High - \$20.00 Low - \$10.00 Average - \$14.00 **MONTANA (5)** Butte (5) Montana Tech - Technical Outreach (3) NCAT - National Center for Appropriate Technology St. James HealthCare COLORADO (2) Echostar Technologies (formerly Echostar Communications), Denver (2) IDAHO (1) Micron Technology, Inc., Boise **Drafting Technology** 1 Reported High - I/D Low - I/D Average - I/D

MONTANA (1) Butte (1)

MSE Technology Applications, Inc. (MSE-TA)

	High - \$23.50	Low - \$14.00	Average - \$17.04
MONTANA (5)			
Butte (5)	NCAT - National Center for A	ppropriate Technology	
	NorthWestern Energy (3)		
	PPL Montana, Inc.		
COLORADO (1)	Bechtel Corporation, Pueblo		
IDAHO (2)	Idaho National Laboratory (IN	L), Idaho Falls	
	Thompson Creek Mining Com	pany, Clayton	
NEVADA (1)	Robinson Nevada Mining Con	npany, Ely	
UTAH (1)	Rio Tinto, Magna		
WYOMING (1)	Cloud Peak Energy, Gillette		

# **Environmental Engineering**

14 Reported

	High - \$36.54	Low - \$11.00	Average - \$19.46
MONTANA (6)			
Big Timber (1)	Stillwater Mining Company		
Butte (3)	Montana Department of Environmental Quality (DEQ)		
	Montana Tech - MBMG		
	Pioneer Technical Services, In	С.	
Opportunity (2)	S&K Environmental Restoration	n (2)	
CALIFORNIA (1)	Chevron, San Ramon		
IDAHO (1)	Thompson Creek Mining Comp	oany, Clayton	
NEVADA (2)	Barrick Goldstrike Mines, Elko		
	Newmont Mining Corporation,	Elko	
NORTH DAKOTA (1)	Neset Consulting Service, Tiog	a	
WASHINGTON (1)	BP, Blaine		
WYOMING (2)	Cloud Peak Energy, Gillette (2)	)	

# General Engineering

49 Reported

<b>Civil Engineering Option</b>				
	High - \$23.00	Low - \$10.00	Average - \$14.92	
MONTANA (12)				
Butte (4)	ERM, Inc.			
	Montana Resources, LLP			
	USDOI BLM - Montana			
	Water & Environmental Techno	ologies (WET)		
Great Falls (1)	US Forest Service			
Helena (1)	DOWL HKM			
Kalispell (1)	CMG Engineering, Inc.			
Miles City (1)	Oftedal Construction			
Missoula (3)	DJ&A, P.C.			
	Knife River			
	Spectrum Aquatics			
Sidney (1)	Interstate Engineering			
CALIFORNIA (2)	Kiewit Construction, Carlsbad			
	PCL Constructors Inc., Los Ang	geles		
OREGON (1)	Western Federal Lands Highwa	ay Division, Prineville		
TEXAS (3)	Baker Concrete Construction, I	nc., Houston		
	Kiewit Construction, Fort Worth	า		
	Kiewit Construction, Keller			
WASHINGTON (3)	Barnard Construction, Snoqual	mie		
	Centralia City Light, Centralia			
	The Boeing Company, Everett			
WYOMING (1)	Arch Coal Inc., Wright			

# Mechanical Engineering Option

	High - \$36.00	Low - \$9.00	Average - \$18.70
MONTANA (7)			
Butte (4)	Montana Tech - CAMP		
	NCAT - National Center for Ap	propriate Technology	(2)
	SeaCast, Inc.		
Decker (1)	Kiewit Mining Corp		
Manhattan (1)	Plastic Design & Manufacturin	g	
Montana City (1)	Utility Mapping Services, Inc.		
CALIFORNIA (2)	Aera Energy LLC, Bakersfield		
	Rio Tinto, Boron		
OKLAHOMA (1)	SandRidge Energy, Inc., Okla	homa City	
OREGON (1)	Ash Grove Cement Company,	Durkee	
TEXAS (2)	Kiewit Construction, Fort Wort	h	
	Kiewit, Dallas		
UTAH (2)	Kennecott Energy, Salt Lake		
	Rio Tinto, Salt Lake City		
VIRGINIA (1)	Ashland, Franklin		
WASHINGTON (3)	Puget Sound Naval Shipyard,	Bremerton (3)	
WYOMING (1)	MI SWACO, Greybull		

		Law #40.00	Auguana #40.04
	High - \$22.00	Low - \$12.22	Average - \$16.21
IONTANA (2)			
Butte (2)	Montana Department of Trans	sportation (MDT)	
	Montana Resources, LLP		
NEVADA (1)	Barrick Goldstrike Mines, Cor	tez	
	Welding Engine	eering Option	
	High - \$17.50	Low - \$11.00	Average - \$14.88
IONTANA (3)			
Butte (3)	Montana Resources, LLP		
·	SeaCast, Inc. (2)		
VYOMING (1)	L&H Industrial, Inc., Gillette		
ological Engi	neering		3 F
	High - \$20.00	Low - \$12.00	Average - \$17.00
IONTANA (2)			
Anaconda (1)	Pioneer Technical Services, I	nc.	
Nye (1)	Stillwater Mining Company		
IEVADA (1)	Newmont Mining Corporation	, Elko	
oscience			1 F
	<u>Geology</u>	<u>Option</u>	
	High - I/D	Low - I/D	Average - I/D
IONTANA (1)			
Whitehall (1)	Barrick Goldstrike Mines		
alth Care Inf	ormatics		11 F
(3 Volunteer Experien	ces) High - \$11.00	Low - \$8.00	Average - \$9.67
IONTANA (11)			
Anaconda (1)	Community Hospital of Anacc	onda	
Butte (9)	Community Health Center (6)		
20110 (0)	Human Resources Council-Di		
	Montana Tech - Health Care	Informatics	
	Montana Tech - Health Care St. James HealthCare	Informatics	
	Montana Tech - Health Care	Informatics	

dustrial Hygi	ene		4 Re	porte
(1 Volunteer Experien	ce) High - \$25.00	Low - \$21.00	Average - \$23.33	
MONTANA (3) Anaconda (1) Great Falls (1) Pablo (1) CALIFORNIA (1)	Jordan Contracting, Inc. PPL Montana, Inc. Confederation of Salish & Koote Chevron, San Ramon	enai Tribes		
terdisciplinar	У		1 Re	porte
	High - I/D	Low - I/D	Average - I/D	
AUSTRALIA (1)	Griffith University, Brisbane, QI			
beral Studies			8 Re	port
(5 Volunteer Experien	ices) High - I/D	Low - I/D	Average - I/D	
MONTANA (8) Butte (7) Helena (1)	Butte Family YMCA Butte School District #1 CCCS (Community Counseling Montana Tech - COT Safe Space (2) Montana Supreme Court	& Correctional Servio	ce Inc.) (2)	
athematical S	ciences		1 Re	port
	High - I/D	Low - I/D	Average - I/D	
MONTANA (1) Butte (1)	Lavelle Equipment Repair			
etallurgical Er	ngineering		13 Re	port
	High - \$23.60	Low - \$15.00	Average - \$19.71	
MONTANA (3) Colstrip (1) Columbus (2) ALASKA (1) IDAHO (1) IOWA (1) NEVADA (3)	Westmoreland Coal Co. Stillwater Mining Company (2) Teck Resources, Red Dog Mine Thompson Creek Mining Comp John Deere Company, Waterlo Barrick Goldstrike Mines, Elko Newmont Mining Corporation, E Quadra FNX Mining Limited, El	any, Challis o Elko		

#### Mining Engineering

	High - \$26.44	Low - \$10.00	Average - \$18.96
MONTANA (6)			
Butte (2)	Montana Resources, LLP (2)		
Colstrip (1)	Westmoreland Coal Co.		
Nye (1)	Stillwater Mining Company		
Troy (1)	Troy Mine Inc.		
Whitehall (1)	Barrick Goldstrike Mines		
ALASKA (1)	Granite Construction Compan	y, Anchorage	
ARIZONA (1)	Freeport-McMoRan Copper &	Gold Inc., Bagdad	
COLORADO (1)	Freeport-McMoRan Copper &	Gold Inc., Empire	
IDAHO (3)	Coeur Silver Valley Inc (US Silver Corporation), Wallace (2)		
	Idaho National Laboratory (IN	_), Idaho Falls	
ILLINOIS (1)	Unimin Corporation, Ottawa		
MINNESOTA (1)	Cliffs Natural Resources Inc, E	Babbitt	
NEVADA (5)	Barrick Goldstrike Mines, Elko	1	
	Newmont Mining Corporation,	Winnemucca (2)	
	Quadra FNX Mining Limited, E	Ely	
	Yukon-Nevada Gold Corp., El	ko	
WYOMING (2)	Kiewit Mining Corp, Gillette		
	Peabody Energy, Gillette		

## Network Technology

(3 Volunteer Experiences) High - \$35.00 Low - \$7.35 Average - \$11.95 **MONTANA (19)** Butte (16) AtaData Butte School District #1 Montana Tech - Athletic Dept Montana Tech - COT (4) Montana Tech - PTC Dept. NorthWestern Energy (2) Pioneer Technical Services, Inc. PPL Montana, Inc. Public Housing Authority of Butte **Rite Fix Computers** St. James HealthCare Town Pump, Inc. Great Falls (2) Montana State University- Great Falls Network Express LTD Missoula (1) **Community Medical Center** ILLINOIS (2) DCV Tech, Hickory Hills (2) NEW MEXICO (1) Impala Networks, Farmington Evergreen Public Schools, Vancouver WASHINGTON (1) WYOMING (1) Tri County Telephone (TCT), Basin Alslam, Riyadh SAUDI ARABIA (1)

21 Reported

25 Reported

NEVADA (2)

OKLAHOMA (1)

WASHINGTON (4)

WYOMING (3)

OHIO (1)

UTAH (1)

# **Occupational Safety & Health**

28 Reported

Applied Health Option				
(4 Volunteer Experie	nces)	High - I/D	Low - I/D	Average - I/D
MONTANA (4)				
Butte (4)	Herbal	ife		
	Montai	na Tech - Athletic Dept	t	
	St. Jar	nes HealthCare (2)		
CALIFORNIA (1)	REC S	ilicon, San Francisco		
NEVADA (1)	Barrick	Goldstrike Mines, Elk	0	
		<u>No Op</u>	otion	
(2 volunteer Experie	(2 Volunteer Experiences) High - \$26.60 Low - \$9.00 Average - \$18.22			
MONTANA (6)				
Anaconda (1)	Laslov	ich Construction		
Butte (3)	Montai	na Resources, LLP (2)		
	Wave	Pro		
Columbus (1)	Stillwater Mining Company			
West Yellowstone	Grizzly	Internet		
CALIFORNIA (1)	Aera E	nergy LLC, Ventura		
IDAHO (1)	TIC - T	he Industrial Company	/, New Plymouth	
IOWA (1)	Morter	son Construction, Mas	sena	
MISSOURI (1)				

Barrick Goldstrike Mines, Winnemucca Newmont Mining Corporation, Winnemucca

Granite Construction Company, Salt Lake City

Envirocon, Inc., Cincinnati

Envirocon, Inc., Richland M & E Consulting, Hanford The Boeing Company, Seattle Traylor Bros., Inc., Seattle

Mortenson Construction, Elk City

Cloud Peak Energy, Gillette (2) Cloud Peak Energy, Sheridan

#### **Petroleum Engineering**

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MONTANA (4)	
Billings (1)	Hohn Engineering, PLLC
Butte (1)	MSE Technology Applications, Inc. (MSE-TA)
Saco (2)	Denbury Resources
	Fidelity Exploration & Production Company
ALASKA (2)	BP, Anchorage (2)
CALIFORNIA (4)	Venoco Inc., Carpinteria (2)
	Venoco Inc., Oxnard
	Venoco Inc., Santa Barbara
COLORADO (4)	Anadarko Petroleum Corporation, Denver (2)
	Anadarko Petroleum Corporation, Evans
	Noble Energy, Denver
LOUISIANA (1)	Shell Exploration & Production Co., New Orleans
NORTH DAKOTA (3)	Ensign US Drilling, Williston
	Hess Corporation, Tioga
	The Energy & Environmental Research Center (EERC), Grand Forks
OKLAHOMA (5)	Devon Energy Corporation, Oklahoma City (2)
	SandRidge Energy, Inc., Oklahoma City (2)
	SM Energy Company, Tulsa
TEXAS (11)	Anadarko Petroleum Corporation, Houston
	BP, Houston
	Chesapeake Energy Corp., Fort Worth
	Chevron, Houston (2)
	Devon Energy Corporation, Midland
	Merit Energy Company, Dallas
	Newfield Exploration, Houston
	Packers Plus Energy Services, Midland
	Whiting Petroleum, Midland (2)
WYOMING (2)	Devon Energy Corporation, Riverton
	QEP Resources, Pinedale
CANADA (7)	Canadian Natural Resources Limited (CNRL), Calgary, Alberta (2)
	Cenovus Energy, Calgary, Alberta
	EnCana Corporation - Canada, Calgary, Alberta
	Husky Energy, Inc., Calgary, Alberta
	Nexen Inc., Calgary, Alberta
	Penn West Exploration, Calgary, Alberta

# **Pre-Professional Health Science**

2 Reported High - I/D (2 Volunteer Experiences) Low - I/D Average - I/D MONTANA (2) Billings (1) St. John's Lutheran Ministries Laurel (1) Walmart

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43 Reported

High - \$45.01 Low - \$11.50 Average - \$28.79

#### **Professional & Technical Communication** 6 Reported Low - \$7.35 (2 Volunteer Experiences) High - \$8.50 Average - \$7.96 **MONTANA (6)** Anaconda (1) Goosetown Racquet & Health Club Butte (3) KXLF - TV (2) NCAT - National Center for Appropriate Technology Lolo (2) A Better You Coach (2) **Software Engineering** 3 Reported High - I/D Low - I/D Average - I/D COLORADO (1) Echostar Technologies (formerly Echostar Communications), Denver CANADA (2) K & C DATA Management Inc., Calgary, Alberta (2)

# **Technical Communication**

High - I/D Low - I/D Average - I/D

1 Reported

MONTANA (1) Butte (1)

St. James HealthCare