Work Force: The Realities

Katalin Gonzales ~ Alex Glover ~ Melissa Shoemaker ~ Logan Fox Isaac Lee ~ Kellie Reynolds ~ Adam Couldridge ~ Elias Vlastos

Chronology of Jobs in Wyoming (video)

Link: http://www.youtube.com/watch?v=3LbGNAOn_SM

Talking Points:

Tech advancements

Aging

National needs

Exodus of Wyoming's Young Workers (video)

Link: http://www.youtube.com/watch?v=STzOL72Mc5o

Talking Points:

Why do young people leave?

Why do the middle aged and elderly settle?

Where does this leave us?

ACADEMIES of NATRONA COUNTY

- 4 Academies
- Each Academy has a variety of Pathways
- Pathways prepare students for after high school
 - : college/university
 - : workforce

Business - Agriculture - Natural Resources

	Potential Career	Related SOC Codes	Related SOC Titles	annual openings	growth from 2012 to 2022	annual pay	hourly wage
	Agriculture	Codes	Related SOC Titles	aririuai operiirigs	10 2022	ailiuai pay	nouny wage
	Scientist	19-1011	Animal Scientist	N/A	N/A	N/A	N/A
		19-1012	Food Scientists and Technologists		N/A	\$52877	
		19-1013	Soil and Plant Scientists	17.1		N/A	\$29.11
	Food Scientist	19-1012	Food Scientists and Technologists #003	17.3			
Alex	Zoologist	19-1023	Zoologists and Wildlife Biologists	16		+	
	Wildlife Biologist	19-1023	Zoologists and Wildlife Biologists	17		+	
	Environmental		Environmental Scientists and Specialists, Including			Ţ.	,
	Scientist	19-2041	Health #002	17	88	\$61834	\$27.47
	Cartographer	17-1021	Cartographers and Photogrammetrists	17.7	30	\$57934	\$28.54
		17-3031	Surveying and Mapping Technicians	10.3	16	\$56982	\$27.64
	Environmental Engineer	17-2081	Environmental Engineer	14.4	N/A	\$59464	\$23.56
	Enginosi	17-3025	Environmental Engineering Technicians	6		N/A	\$30.95
	Food Service	11 0020	Environmental Engineering Teerinicale		20	1473	φου.σο
	Manager	11-9051	Food Service Managers	1	7	\$58232	\$28
	Chef	35-1011	Chefs and Head Cooks	1	3	\$42468	\$20.42
	Head Cook	35-1011	Chefs and Head Cooks				
	Purchasing Manager	11-3061	Purchasing Manager	0	11	N/A	N/A
	Loan Officer	13-2072	Loan Officers	61	4		1
Adam	Accountant	13-2011	Accountants and Auditors	2	5	+	,
Auam	Software Developer		Software Developers, Applications	0	-	N/A	N/A
	Software Developer	15-1132	Software Developers, Applications Software Developers, Systems Software	1	3		1
	Computer	10-1100	Software Developers, Systems Software	<u> </u>	3	φθουου	φ40.42
	Programmer	15-1131	Computer Programmers	3	-2	\$56653	\$27.24
	Network Architect	15-1143	Computer Network Architects	3	4	\$104254	\$50.12
	Business Manager	11-1021	General and Operations Managers	20	7	\$99854	,

Creative Arts - Communication - Design

	Potential Career	Related SOC Codes	Related SOC Titles	annual openings	growth from 2012 to 2022	annual pay	hourly wag	je
	Graphic Artist	27-1024	Graphic Designers		5 -1	5 \$29074	l	\$13.98
Adam	Photographer	27-4021	Photographers		2 -	5 \$28448	3	\$13.68
	Animator	27-1014	Multimedia Artists and Animators		1 -	2 N/A	N/A	
	Camera Operator	27-4031	Camera Operators, Television, Video, and Motion Pictures		0	N/A	N/A	
	Interior Designer	27-1025	Interior Designers		3	4 \$51302	2	\$24.66
	Fashion Designer	27-1022	Fashion Designers		1	1 NA	NA	
	TV							
	Reporter/Producer	27-2012	Producers and Directors	1	3 -	\$57396		
		27-3022	Reporters and Correspondents	2	4 -4	4 \$27723	3	\$13.33
	Copy Editor	27-3041	Editors	1	0 -1	1 \$40871		\$19.65
	Actor	27-2011	Actors	NA	NA	NA	NA	
	Director	27-2012	Producers and Directors	Repeated	Repeated	Repeated	Repeated	
Eli		27-1011	Art Directors		0	1 NA	NA	
		27-2041	Music Directors and Composers		3	3 \$49333	3	\$23.72
	Musician	27-2042	Musicians and Singers		2	5 NA	NA	
	Dancer	27-2031	Dancers	NA	NA	NA	NA	
	Museum Director	25-4012	Curators		5 1	\$49414	l l	\$23.76
	Movie Producer	27-2012	Producers and Directors	Repeated	Repeated	Repeated	Repeated	
	Web Designer	15-1134	Web Developers	1	0 1	\$54373	3	\$26.14
	Advertising							
	Director	11-2011	Advertising and Promotions Managers		1	1 \$65265	5	\$31.38
	Artisitic Director	27-1011	Art Directors	Repeated	Repeated	Repeated	Repeated	

Health Sciences - Human Services

Related SOC Titles	annual openings	growth from 2012 to 2022	annual pay	hourly wage
Chiropractors	annian spennige		3 \$63426	
Oral and Maxillofacial Surgeons	•	1 N/A	N/A	N/A
Optometrists		9 2	5 \$87805	\$42.21
Pharmacists		3	8 \$114169	\$54.89
Anesthesiologists	8	3	5 \$257241	\$123.62
Family and General Practitioners	24	4 6	5 \$154251	\$74.16
Internists, General		9 1	9 \$208540	\$100.26
Obstetricians and Gynecologists		5 1	2 \$237526	\$114.19
Pediatricians, General	(6 1	7 \$145176	\$69.8
Psychiatrists	N/A	N/A	\$215683	\$103.69
Surgeons	2	2	5 \$257300	\$123.7
Physicians and Surgeons, All Other	(6 1	2 \$224893	\$108.12
Veterinarians		7 1	4 \$55407	\$26.64
Registered Nurses	449	9 84	9 \$67129	\$32.27
Nurse Anesthetists	4	4	5 \$235755	\$113.34
Nurse Midwives	N/A	N/A	N/A	N/A

HSHS cont.

			Openings Now	Openings in 2022	Annual Wage	Hourly Wage
	25-2023	Career/Technical Education Teachers, Middle School	7	23	\$59503	N/A
	25-2031	Secondary School Teachers, Except Special and Career/Technical Education	175	686	\$60099	N/A
	25-2032	Career/Technical Education Teachers, Secondary School	26	96	\$59878	N/A
	25-2051	Special Education Teachers, Preschool	11	23	\$51551	N/A
	25-2052	Special Education Teachers, Kindergarten and Elementary School	47	174	\$57649	N/A
	25-2053	Special Education Teachers, Middle School	19	73	\$62686	N/A
	25-2054	Special Education Teachers, Secondary School	25	100	\$57633	N/A
	25-2059	Special Education Teachers, All Other	0	2	\$45861	N/A
Police Officer	33-3051	Police and Sheriff's Patrol Officers	81	193	\$51089	\$24.56
Detective	33-3021	Detectives and Criminal Investigators	11	24	\$72084	\$34.66
Social Worker	21-1021	Child, Family, and School Social Workers	63	152	\$45244	\$21.75
	21-1022	Healthcare Social Workers	17	27	\$47767	\$22.96
	21-1023	Mental Health and Substance Abuse Social Workers	27	64	\$43914	\$21.11
	21-1029	Social Workers, All Other	16	37	\$52114	\$25.05
Counselor	21-1011	Substance Abuse and Behavior Disorder Counselors	12	30	\$43391	\$20.86
	21-1012	Educational, Guidance, School, and Vocational Counselors	64	215	\$58051	\$27.91

HSHS cont.

		21-1013	Marriage and Family Therapists #001	1,4	13	\$63825	\$30.69
		21-1014	Mental Health Counselors	15	86	\$52592	\$25.32
		21-1015	Rehabilitation Counselors	15	82	\$30750	\$14.79
Alex		21-1019	Counselors, All Other	N/A	N/A	N/A	N/A
	Psychologist	19-3031	Clinical, Counseling, and School Psychologists	15	152	\$45233	\$21.75
		19-3032	Industrial Psychologists	3	27	\$47767	\$22.96
		19-3039	Psychologists, All Other	6	63	N/A	N/A
					growth from 2012		
				annual openings	to 2022	annual pay	hourly wage

Sources:

- U.S. Office of Management and Budget, Standard Occupational Manual, 2010
- L. Knapp, 10/10/2013, Research & Planning, WYDWS

Architecture - Construction - Engineering - Mechanics

The Academy of Architecture, Construction, Manufacturing, and Engineering (ACME)						
Engineering (Nome)	Related SOC			growth from 2012		
Potential Career	Codes	Related SOC Titles	annual openings	to 2022	annual pay	hourly wage
Civil Engineer	17-2051	Civil Engineers	88	plus 139	\$70615	\$33.95
	17-3022	Civil Engineering Technicians	31	plus 63	\$44070	\$21.19
Survey Technician	17-1022	Surveyors	25	plus 47	\$59568	\$28.64
	17-3031	Surveying and Mapping Technicians	17	plus 39	\$44543	\$21.41
Architect	17-1011	Architects except Lanscape and Naval	15	plus 17	\$68408	\$32.89
	17-3011	Architectural and Civil Drafters	24	plus 47	\$45828	\$22.03
Auto Service Tech	49-3023	Automotive Service Technicians and Mechanics	132	plus 318	\$40361	\$19.4
Auto Collision Tech	49-3021	Automotive Body and Related Repairers	30	plus 91	\$44773	\$21.53
Diesel Service Tech	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	154	plus 501	\$54713	\$26.3
Aerospace Engineer	17-2011	Aerospace Engineers	N/A	N/A	N/A	N/A
· •	17-3021	Aerospace Engineering and Operations Technicians	N/A	N/A	N/A	N/A
Electrical Engineer	17-2071	Electrical Engineers	20	plus 50	\$59038	\$33.19
	17-3023	Electrical and Electronics Engineering Technicians	8	plus 19	\$62926	\$30.25
Mechanical Engineer	17-2141	Mechanical Engineers	26	plus 71	\$82085	\$39.46
	17-3027	Mechanical Engineering Technicians	2	plus 7	\$47013	\$22.6
Machine Installer	31-9093	Medical Equipment Preparers	5	plus 15	\$30343	\$14.59

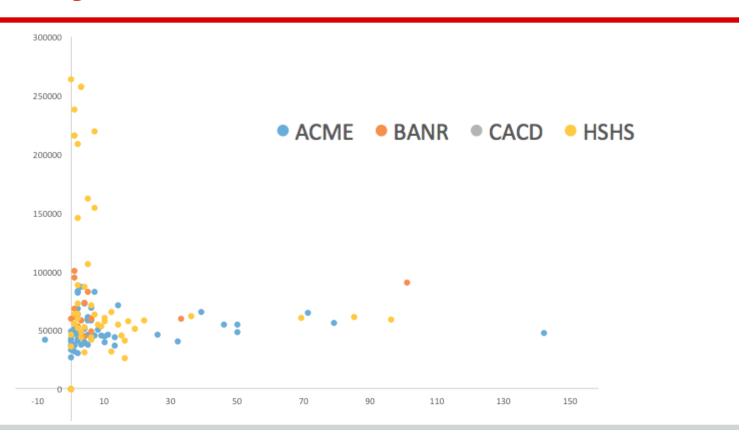
47-2011	Boilermakers	5	plus 20	\$ 58,557	\$ 28.15
	First-Line Supervisors of Mechanics, Installers, and				
49-1011	Repairers	163	plus 392	\$ 65,348	\$ 31.42
	Computer, Automated Teller, and Office Machine				
49-2011	Repairers	13	plus 25	\$ 37,552	\$ 18.05
	Radio, Cellular, and Tower Equipment Installers and				
49-2021	Repairers	4	plus 21.3	NA	NA
	Telecommunications Equipment Installers and				
49-2022	Repairers, Except Line	12	plus 27	NA	NA
49-2091	Avionics Technicians	0	plus 24.7	NA	NA
49-2092	Electric Motor, Power Tool, and Related Repairers	3	plus 42.4	\$ 49,398	\$ 23.75
	Electrical and Electronics Repairers, Commercial and				
49-2094	Industrial Equipment	1	plus 2	NA	NA
49-2096	Electrical and Electronics Repairers, Motor Vehicles	0	neg. 33	NA	NA
49-2097	Electronic Home Entertainment Installers and Repairers	1		0 NA	NA
49-2098	Security and Fire Alarm Systems Installers	8	plus 18	\$ 42,113	\$ 20.25
49-3041	Farm Equipment Mechanics and Service Technicians	7	plus 20	\$ 40,492	\$ 19.47
49-9011	Mechanical Door Repairers	0	neg. 11.4	NA	NA
	Control and Valve Installers and Repairers, Except				
49-9012	Mechanical Doors	21	plus 55	\$ 60,648	\$ 29.16
	Heating, Air Conditioning, and Refrigeration Mechanics				
49-9021	and Installers	77	plus 96	\$ 39,147	\$ 18.82
49-9031	Home Appliance Installers	2	neg 6.7	NA	NA

		49-9041	Industrial Machinery Mechanics	221	34%	55686	26.77
		49-9043	Maintenance Workers, Machinery	44	28.4%	46085	22.16
		49-9044	Millrights	26	23.4%	58146	27.95
		49-9051	Electrical Power Line Installers and Repairers	36	10.2%	72037	34.63
		49-9052	Telecommunication Line Installers and Repairers	41	15.7%	45068	21.67
			Coin, Vending, and Amusement Machine Installers and				
		49-9091	Repairers	2	6.3%	32677	15.71
		49-9097	Signal and Track Switch Repairers	N/A	n/a	n/a	n/a
		49-9099	Installation, Maintenance, and Repair Workers, All Other	23	27.1	50181	24.13
Abe		51-2031	Engine and Other Machine Assemblers	0	58.7	n/a	n/a
	Tool Maker	51-4041	Machinists	50	23.8	43837	21.08
		51-4111	Tool and Die Makers	1	-5.4	48959	23.54
	Chemical Engineer	17-2041	Chemical Engineer	n/a	n/a	n/a	n/a
	Welder	51-4121	Welders, Cutters, Solderers, and Brazers	49	38.7	53732	25.83
			Welding, Soldering, and Brazing Machine Setters,				
		51-4122	Operators, and Tenders	10	23.9	42226	20.3
	Construction Manager	11-9021	Construction Managers	72	4	81836	39.34
			First-Line Supervisors of Construction Trades and				
	Building Trades	47-1011	Extraction Workers	555	21.4	64541	31.03

47-2021	Brickmasons and Blockmasons	2	24	\$47350	\$22.76
47-2022	Stonemasons	0	1	N/A	N/A
47-2031	Carpenters	-8	-78	\$41481	\$19.94
47-2041	Carpet Installers	0	-2	\$26243	\$12.63
47-2044	Tile and Marble Setters	1	9	\$39704	\$17.83
47-2047	Floor Layers, Except Carpet, Wood, and Hard Tiles	0	4	\$25050	\$12.04
47-2051	Cement Masons and Concrete Finishers	13	132	\$36364	\$17.48
	Operating Engineers and Other Construction Equipment				
47-2073	Operators	142	25	\$47302	\$22.74
47-2081	Drywall and Ceiling Tile Installers	4	44	\$36361	\$18.55
47-2111	Electricians	46	plus 132	\$54204	\$26.06
47-2121	Glaziers	1	11	\$36292	\$17.45
47-2131	Insulation Workers, Floor, Ceiling, and Wall	4	10	\$37298	\$17.93
47-2141	Painters, Construction and Maintenance	5	46	\$37292	\$17.94
47-2152	Plumbers, Pipefitters, and Steamfitters	10	99	\$44353	\$21.32
47-2211	Sheet Metal Workers	4	35	\$39589	\$19.03
47-2221	Structural Iron and Steel Workers	1	14	\$46574	\$22.39

	47-2171	Reinforcing Iron and Rebar Workers		1 0	N/A	N/A
	47-4011	Construction and Building Inspectors		1 2	N/A	N/A
	47-4099	Construction and Related Workers, All Other		0	N/A	N/A
Airline Management	11-3071	Transportation, Storage, and Distribution Managers		1 1	N/A	N/A
	43-1011	First-Line Supervisors of Office and Administrative Support Workers	Cant find	Cant find	Cant find	Cant find
	53-1031	First-Line Supervisors of Transportation and Material- Moving Machine and Vehicle Operators	Cant find	Cant find	Cant find	Cant find
Computer Hardware Engineer	17-2061	Computer Hardware Engineers		0 0	N/A	N/A
Source: U.S. Office of Management and Budget, Standard Occupational Classification Manual, 2010						
L. Knapp, 10/10/2013, Research & Planning, WYDWS						

Academy Outlook . . .



Alex: Firefighter

Student loans... Hathaway Scholarship... Finances...

Salary - Between \$55,650 yearly (without overtime) or \$4.583 a month

<u>Location</u> - Boulder, Colorado

Education - Fire Science at Casper College and more...

Skills - As listed

Monthly Costs - Around \$2,550

Income tax bracket 2013: 25.7%

Saved per Month - \$1,833

Job Growth - Varies on population...



Mastering

Soft Skills for the Workforce

How does school prepare you for these?

- Communication (formal & informal)
- Decision Making
- Showing Commitment (long and short term)
- Flexibility (when you must change plans)
- Time Management (handling a 'full plate')
- Leadership Skills (in a group . . .)
- Creativity/Problem-Solving (thinking 'outside the box')
- Being a team player (making the most of each other's strengths)
- Accepting Responsibility (accountability to self, others, and outcomes)
- Ability to work under pressure (deadlines and expectations)

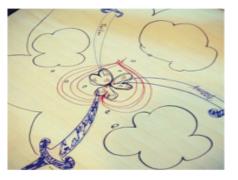
Design Camp











HOW CAN TEENS IMPACT CASPER?

"See a need, fill a need." - Heather

"Foundations of cool people are already here."

- Chelsey

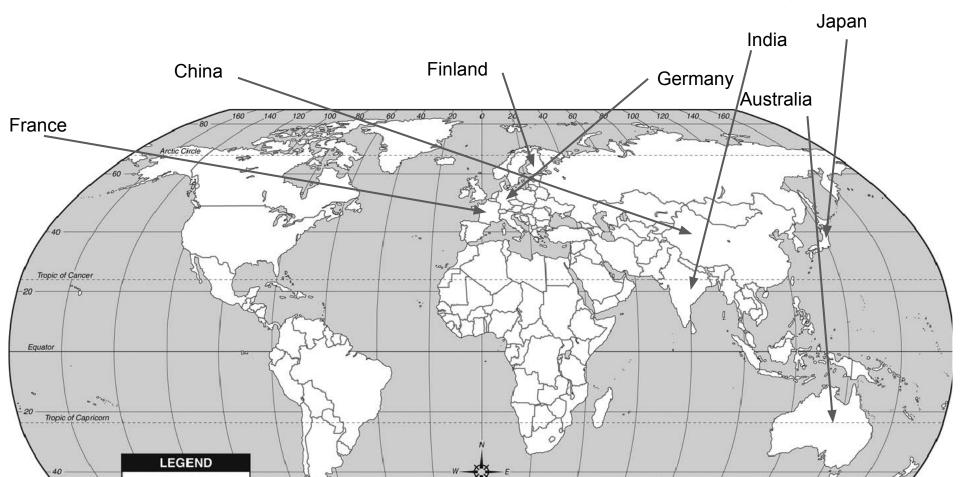
HOOK THEM IN. ILLUSTRATE THE IDEA. EXPLAIN WHY IT MATTERS.







Workforce Education Around the Globe



Thank you for your time . . .

... Any questions?