

**Bloomfield School District** 

# **Career Prep Program Development**

Four Corners Regional Education Cooperative 1

Executive Operational Plan: May, 2021-December, 2021 By: Jose Villarreal, Jr. | Work-Based Learning Consultant

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#### I. Bloomfield Schools - Career Prep Development - Executive Summary

#### What is a Career Pathway?

A Pathways Program is a program of interconnected academic and elective classes revolving around a career or subject theme. It is integrated with experiential learning and close connections between secondary and postsecondary education, training, and internship or apprenticeship. The program is designed to support the development of college and career readiness for the learner, so that the individual can successfully enter and advance in a career path.

The Kellogg Foundations - Career Prep Development project is a comprehensive collection of qualitative and quantitative data including local and regional labor market trends, current Career and Technical Education (CTE) career pathways course sequences (Bloomfield Schools), local industry focus group interviews, and local student career interests. The collection of data was performed via internet, teleconference interview, and face-to-face interviews. The data ranges from local to regional to national sources.

#### Purpose:

The purpose of this project is to research and identify skills and employability gaps in the transition from education to the workforce, in addition to providing expert recommendations to enhance and/or redesign the current career pathways model at Bloomfield Schools.

This research project is outlined in the following format: current career pathways at Bloomfield Schools; career interest survey data from local middle and high school students; CTE Labor Market Information (LMI) data; local industry focus group interview summary data; NMPED consortium (notes) data from Region A; skills and employability gap analysis and proposals'; career pathways at Bloomfield Schools implementation timeline; and finishes with the cost analysis to redesign the current pathways at Bloomfield Schools.

The researcher and project lead is Jose Villarreal. Mr. Villarreal is a former business owner and small business counselor. He researched and developed the innovative Work-Based Learning Program at Farmington Municipal Schools. The WBL Program's employer-driven model has had success at the local and statewide levels. In the summer of 2021, Mr. Villarreal partnered with NMPED's College and Career Readiness Bureau to launch the Summer Enrichment Internship Program, which provided over 2,300 paid internships to students in 24 counties of New Mexico. Mr. Villarreal's passion is to provide a career opportunity to all students across San Juan County and the state of New Mexico. He believes his Work-Based Learning model can serve as the bridge of the education to workforce gap for generations to come.

# II. Research | Current Bloomfield Schools - CTE Career Pathways, 9-12<sup>th</sup> Grades

- Welding
- Intro and Advanced Carpentry
- Intro Culinary Arts
- Studio Art (Visual Arts)
- Computer Science
- Business
- Mechanical and Technical Drafting
- Choir

# III. Research | Regional Career Interest Survey Results, Students 6-12<sup>th</sup> Grades

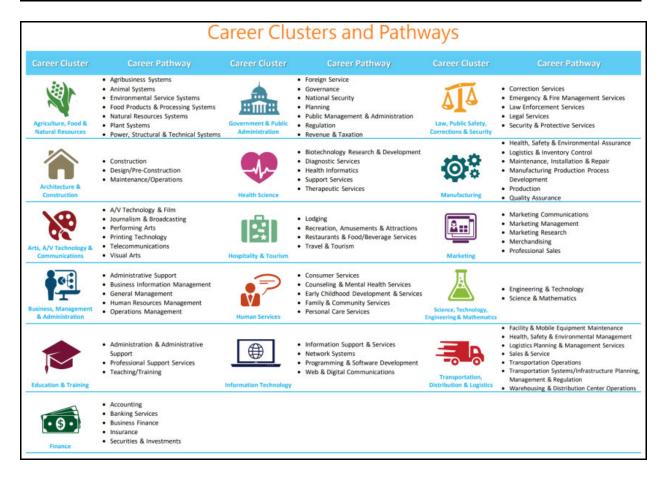
Rank	Middle School / High School Career Pathways Data	Students	Percentage
#1	Arts, A/V, Technology & Communications	528	18.7%
#2	Health Science	501	17.8%
#3	Science, Technology, Engineering, Mathematics	272	9.6%
#4	Business Management & Administration	220	<b>7.8</b> %
#5	Architecture & Construction	214	7.6%
#6	Law, Public Safety, Corrections & Security	170	6.0%
#7	Agriculture, Food & Natural Resources	162	<b>5.8</b> %
#8	Human Services	162	<b>5.8</b> %
#9	Education & Training	131	4.7%
#10	Hospitality & Tourism	120	4.3%
#11	Information Technology	77	2.7%
#12	Marketing	63	2.2%
#13	Manufacturing	61	2.2%
#14	Government & Public Administration	51	1.8%
#15	Finance	51	1.8%
#16	Transportation, Distribution & Logistics	36	1.3%
	TOTAL	2819	100%

# IV. Research | Bloomfield Schools - CTE Labor Market Information (LMI) Workforce Region: Northern

The Pathways 2 Careers (P2C) Career Cluster Maps provide an overview of regional high-demand occupations associated with various job zones (i.e., levels of education and training). The purpose of these maps is to assist educators and students in developing awareness of entry and exit points within a particular career field. The maps have been developed to align with the National Career Clusters Framework and rely on the O\*NET job zone classification system to accurately assign occupations to job zones. Labor market data displayed in the cluster maps was collected from state and regional labor departments to reveal market demand and median wages for each occupation. In using these maps,

educators and students can quickly gain a sense of potential high-value career opportunities and the level of education and training needed to prepare for these professions. This can promote the alignment of education practices with regional careers and assist students in making informed career decisions that take into account regional labor market demands.

Career Cluster Map Data				
Data Category Data Description		Potential Application		
Occupations by Job Zone	Occupations listed by highest projected demand within each job zone	<ul> <li>Understanding Entry and Exit Points — Educators and students can identify employment opportunities that are highest in demand at various education levels. This can be used to encourage informed decisions about when to enter and exit education/training programs.</li> </ul>		
Annual Openings	Projected annual openings displayed for each occupation	<ul> <li>Evaluating Employment Opportunity – Occupations that are higher in in annual openings offer more opportunity for students. Educational practices can be directed toward preparing students for occupations that are highest in demand.</li> </ul>		
Median Wage  • Median wage data listed for each occupation		<ul> <li>Assessing Occupation Value — Data related to median wages can be used to determine which occupations offer the most value to students. Career readiness efforts can target high-value occupations with higher wages, as well as higher annual openings.</li> </ul>		



Career Clus	ster : Arts, Audio/V	ideo Technology & Co	ommunicati	ons
Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorage Degree
*		Audio and Video Equipment Technicians Annual Openings = 5 Median Wage = \$38,460	Graphic Designers Annual Openings = 19 Median Wage = \$43,600	*
*			Technical Writers Annual Openings = 11 Median Wage = \$82,980	*
			Producers and Directors Annual Openings = 9 Median Wage = \$49,820	
*	*	*	*	*
*	*	*	*	*

Job Zone 1	Job Zone 2	Job Zone 3	Job Zone 4	Job Zone 5
High School Diploma or Less	High School Diploma	Certificate or Associate's Degree	Bachelor's Degree	Master's or Doctorage Degree
	*	Registered Nurses Annual Openings = 254 Median Wage = \$75,260	Recreational Therapists Annual Openings = 4 Median Wage = \$35,740	Medical and Health Services Managers Annual Openings = 46 Median Wage = \$105,880
•	*	Medical Assistants Annual Openings = 156 Median Wage = \$35,730		Nurse Practitioners Annual Openings = 28 Median Wage = \$116,430
•	*	Medical Secretaries Annual Openings = 154 Median Wage = \$36,620	*	Physical Therapists Annual Openings = 21 Median Wage = \$94,780
·		Dental Assistants Annual Openings = 90 Median Wage = \$38,050		Physician Assistants Annual Openings = 16 Median Wage = \$121,170
*		Licensed Practical and Licensed Vocational Nurs Annual Openings = 53	*	Speech-Language Pathologists Annual Openings = 10

Career Cluster: Science, Technology, Engineering & Mathematics				
Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorage Degree
*			Environmental Scientists and Specialists, Inclu Annual Openings = 78 Median Wage = \$72,330	Physicists Annual Openings = 145 Median Wage = \$179,850
*	*	*	Engineers, All Other Annual Openings = 41 Median Wage = \$132,700	Computer and Information Research Scientists Annual Openings = 45 Median Wage = \$136,830
*		*	Health and Safety Engineers, Except Mining Safe Annual Openings = 16 Median Wage = \$143,780	Physical Scientists, All Other Annual Openings = 45 Median Wage = \$131,630
			Life, Physical, and Social Science Technicians, Annual Openings = 11 Median Wage = \$43,250	Architectural and Engineering Managers Annual Openings = 20 Median Wage = \$150,450
*	*	*	Geoscientists, Except Hydrologists and Geograph Annual Openings = 10 Median Wage = \$67,860	Anthropologists and Archeologists Annual Openings = 11 Median Wage = \$59,950

Career Cluster: Business Management & Administration				
Job Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorage Degree
	Information and Record Clerks, All Other Annual Openings = 22 Median Wage = \$38,930		General and Operations Managers Annual Openings = 343 Median Wage = \$89,090	Management Analysts Annual Openings = 117 Median Wage = \$64,370
			Business Operations Specialists, All Other Annual Openings = 165 Median Wage = \$75,470	
*			Managers, All Other Annual Openings = 98 Median Wage = \$89,470	
*		*	Training and Development Specialists Annual Openings = 55 Median Wage = \$54,400	
*			Human Resources Specialists Annual Openings = 55 Median Wage = \$53,570	

Career Cluster : Architecture & Construction				
lob Zone 1 High School Diploma or Less	Job Zone 2 High School Diploma	Job Zone 3 Certificate or Associate's Degree	Job Zone 4 Bachelor's Degree	Job Zone 5 Master's or Doctorage Degree
Roustabouts, Oil and Gas Annual Openings = 92 Median Wage = \$36,150	Operating Engineers and Other Construction Equi Annual Openings = 144 Median Wage = \$45,190	First-Line Supervisors of Construction Trades a Annual Openings = 180 Median Wage = \$57,110	Construction Managers Annual Openings = 40 Median Wage = \$91,020	*
Derrick Operators, Oil and Gas Annual Openings = 51 Median Wage = \$44,590	Carpenters Annual Openings = 133 Median Wage = \$43,260	Electricians Annual Openings = 113 Median Wage = \$57,680	Civil Engineers Annual Openings = 29 Median Wage = \$89,960	*
Cement Masons and Concrete Finishers Annual Openings = 24 Median Wage = \$37,600	Service Unit Operators, Oil, Gas, and Mining Annual Openings = 96 Median Wage = \$56,600	Plumbers, Pipefitters, and Steamfitters Annual Openings = 88 Median Wage = \$43,260	Cost Estimators Annual Openings = 18 Median Wage = \$51,840	*
Septic Tank Servicers and Sewer Pipe Cleaners Annual Openings = 10 Median Wage = \$38,230	Highway Maintenance Workers Annual Openings = 53 Median Wage = \$35,730	First-Line Supervisors of Landscaping, Lawn Ser Annual Openings = 48 Median Wage = \$48,910	Architectural and Civil Drafters Annual Openings = 13 Median Wage = \$45,100	*
Plasterers and Stucco Masons Annual Openings = 9 Median Wage = \$42,110	Painters, Construction and Maintenance Annual Openings = 41 Median Wage = \$38,260	Civil Engineering Technicians Annual Openings = 24 Median Wage = \$48,430	Architects, Except Landscape and Naval Annual Openings = 10 Median Wage = \$75,010	*

## V. Research | Four Corners Economic Development- Focus Group Report Summaries

The following focus groups were held by the Four Corners Economic Development: Workforce Development Goal Team, led by Jose Villarreal, Jr. The primary goal for these focus groups was to obtain local industry qualitative workforce data to provide secondary and post-secondary curriculum alignment in preparing the next generation of workforce for college and career readiness. There were seven separate criteria collected in the focus group interviews, however, only four were needed for the purposes of this career pathways project: e.g., jobs in critical demand; essential skills, training and certifications required for high-demand occupations; gap in ongoing skills, training and certifications; and soft skills recommendations

Health Science Focus Group  DATE: December 16, 2020			
Jobs in Critical Demand			
(PMS) Physicians	(Basin) Private Duty Care Workers		
(PMS) Nurse Practitioners	(SJRMC) Registered Nurses (#1)		
(PMS) Physicians Assistants	(SJRMC) Registered Respiratory Therapists		
(PMS) Mental Health Therapists	(SJRMC) Certified Medical Assistants		
(Basin) Social Workers (SJRMC) Certified Nursing Assistants			

Essential Skills, Training and Certifications required for high-demand occupations			
(SJRMC) BLS (Basic Life Support)	(Basin) CAN Training, patient transfers,		
Certification	bathing and home safety		
	Basin provides certifications in house		
(SJRMC) ACLS (Advanced Cardiovascular	(PMS) Mental Therapists require Master's		
Life Support)	Degree independently		
SJRMC offers courses for education and recertification	(PMS) Providers, varies		
(Basin) BLS	(PMS) Nurse Practitioners: Bachelor's Degree		
	& Nurse Practitioner's License		
(Basin) First Aid	(PMS) Physician Assistance Program is about		
	27 months post grad		
(Basin) CPR	(PMS) Family Practice: Undergrad, Grad,		
	Medical School, and 3-year residency		
Providers fo	r Certifications		
(SJRMC) San Juan College	(SJRMC) Pueblo Community College		
Gap in ongoing skills,	raining and certifications		
(PMS) Front Desk Receptionist &	(SJRMC) Soft skills		
Unlicensed Staff: Soft Skills			
(Basin) Soft skills	(SJRMC) Resume writing		
(Basin) Life skills	(SJRMC) Phone and Voicemail skills		
(Basin) Problem solving	(SJRMC) Interviewing skills		
(Basin) Customer service	(SJRMC) Interpersonal skills		
(Basin) Teamwork	(SJRMC) Professionalism		
(Basin) Phone etiquette	(SJRMC) Grooming and appearance		

Soft Skills recommendations for Next Gen Workforce			
(PMS) Time management	(SJRMC) Resume writing		
(PMS) Grooming and appearance	(SJRMC) Email training		
(PMS) Displaying respect	(SJRMC) Cover letter		
(PMS) How to dress in a professional	(SJRMC) Reading, writing		
setting			
(PMS) Resume writing	(SJRMC) Public speaking		
(SJRMC) Microsoft Office	(Basin) Computer skills		
(Basin) Email	(Basin) Resume writing		

Construction & Engineering Focus Group		
DATE: January 27, 2021		
Jobs in Critical Demand		
(Geomat) Qualified Engineers	(XL) CAD position	
(Geomat) Construction Materials	(Jaynes) Laborers and Carpenters	

Technicians			
(XL) Equipment Operators (#1)	(Jaynes) Superintendent		
(XL) Mid-level Craftsmen	(Jaynes) Mid-level Craftsmen		
Essential Skills, Training and Certifications required for high-demand occupations			
(Geomat) Engineers: 4 Year Engineering Deg	· · · · · · · · · · · · · · · · · · ·		
	ic to high level Math Skills, Read Construction		
Drawings and Specifications, online (Speciali	ized) Certifications		
(XL) Good Work Ethic, Math Skills, Input Skil	ls for DFR		
(Jaynes) Superintendents: In House Safety T	raining: First Aid, CPR, OSHA 30		
(Jaynes) Craftsmen: Work Ethic, Etiquette, T	eamwork, Interpersonal, Emotional		
Intelligence			
Gap in ongoing skills, t	raining and certifications		
(Geomat) American Concrete Institution	(Jaynes) Teamwork		
(ACI) Testing Certification			
(Geomat) NMDOT Certifications'	(Jaynes) Emotional Intelligence		
(Geomat) Advanced Construction General	(Jaynes) People skills		
Knowledge; e.g., reading blueprints,			
reading specifications			
(Geomat) Engineering real world	(Jaynes) Desire to learn		
experience			
(Geomat) Drive and desire	(XL) Interpersonal effectiveness		
(Jaynes) Work Ethic	(XL) (Engineers) ACI Flatwork Technician		
	Certification		
	(XL) Work ethic		
	ons for Next Gen Workforce		
(Geomat) Motivation to learn	(Jaynes) Interpersonal skills		
(Geomat) Work ethic	(Jaynes) Teamwork		
(XL) Hands-on problem solving	(Jaynes) Project based learning		
(XL) Critical thinking	(Jaynes) Computer skills		
(XL) Communication skills	(Jaynes) Recommends WBL		
	Internships/Mentorships		
(XL) Work ethic			

Manufacturing Focus Group		
DATE: March 3, 2021		
Jobs in Critical Demand		
(PESCO) Welder (Clay-Groomer) Machinist		
(Sulzer) Machinist (Clay-Groomer) Welder		
(Sulzer) Welder (Jack's) Welder		
Essential Skills, Training and Certifications required for high-demand occupations		

(Sulzer) ISO Certification	(PESCO) Quality (9001)
(Sulzer) Health and Safety Training (45001)	(PESCO) ISO Certification (9000)
(Sulzer) Environmental (14001)	(Clay-Groomer) ISO Certification
(Sulzer) Quality (9001)	(Jack's) ISO Certification
Gap in ongoing skills,	training and certifications
(PESCO) Management and Leadership	(Jack's) Work ethic
skills	
(PESCO) Process & Project Management	(Jack's) Problem Solving
(PESCO) Computer skills	(Jack's) Critical thinking
(PESCO) Process Management	(Jack's) Trouble shooting
(PESCO) Initiative, self-starter	(Jack's) Electrical repair
(PESCO) Software skills	(PANEL) Computer Automated Design (CAD)
(Jack's) Reading and Comprehension	(Clay-Groomer) Work ethic
(Jack's) Basic Math skills	(Sulzer) Desire and drive
Soft Skills recommendati	ons for Next Gen Workforce
(PESCO) Work-Based Learning	(Sulzer) Exposure to industry
Internships/Mentorships	
(PESCO) Vocational Training	(Jack's) Time Management
(PESCO) Career Pathway programs	(Clay-Groomer) Exposed to industry

Film Focus Group		
DATE: April 1, 2021		
Jobs in Critical Demand		
(NM Film) Production Accounting	(NM Film Liaison) Location Scout	
Personnel		
(NM Film) Costuming Department	(SJC Digital) Construction	
(NM Film) Construction	(SJC Digital) Graphic Design	
(NM Film) Hair and makeup	(SJC Digital) Electrician	
(NM Film) Electrician	(SJC Digital) Welder	
(NM Film) Welder (SJC Digital) CDL Transportation		
(NM Film) Plastic Artist	(SJC Digital) Accounting	
(NM Film) Production Assistant (#1)	(SJC Digital) DIT Video Assistant	
Essential Skills, Training and Certificati	ons required for high-demand occupations	
(NM Film) Set etiquette	(NM Film) Transferable skills	
(NM Film) Highly responsive	(NM Film) Bookkeeping	
(NM Film) Pride in work	(NM Film Liaison) Work ethic	
(NM Film) Positive Attitude	(SJC Digital) CDL	
(NM Film) Work ethic	(Film 4C) Hands on learning	
Gap in ongoing skills, training and certifications		
(NM Film) Workforce pipeline	(SJC Film) Set etiquette	
(NM Film) Film production experience	(SJC Film) Lack of system in education	

NM Film) Lack of awareness in education (NM Film Liaison) Local onboarding syst	
Soft Skills recommendati	ons for Next Gen Workforce
(NM Film) Respect	(NM Film) Communication skills
(NM Film) Networking	(NM Film) Creative thinking
(NM Film) Work ethic	(NM Film) Interpersonal effectiveness
(NM Film) Positive attitude	(NM Film) Relationship building

# VI. Research | New Mexico Public Education Department: College and Career Readiness Bureau- Region A Consortium Results (NOTES) from January 2020:

# **Target Industries for Investment:**

- Healthcare
- Intelligent Manufacturing
- Information Technology, including:
  - o Artificial Intelligence
  - Big data/data analytics

Across all program, weave in Entrepreneurship preparation to support the maximum opportunity for CTE graduates

# Top Programs of Study to Pursue Include:

- Health Science (16 votes)
- Manufacturing (16 votes)
- Information Technology (15 votes)
- Transportation and Logistics (8 votes)

#### Characteristics of the Workforce Talent of Region A:

- Proactive
- Well-Qualified, Skilled
- Initiators
- Ethical
- Resilient
- Versatile
- "Unicorn" able to have a broad body of knowledge across multiple areas of experience
- Experienced

- Credentials (diplomas, degrees, certificates)
- Motivated
- Passion
- Culture
- Adaptable (ability to learn)/Coachable/Trainable
- Diverse
- Prepared

# Characteristics of our CTE program to build the talent we need:

• Promotes a regional identity for our talent

- Leverages the collective educational assets of the region (colleges and schools) to generate deep pools of talent
- Be able to recruit the diverse members of the region
- Generates talent with both hard and "soft" skills/employability skills
- Relevant, aligned, and responsive to the business and industry needs of the region
- Provide work-based learning opportunities, like apprenticeships
- Provides the wrap-around supports needed for students to be successful
- Other characteristics of the talent our CTE programs will create include:
  - o "Employability skills"
    - Disciplined
    - Business Etiquette
    - Innovators

# VII. Analysis/Proposal | Industry Focus Group Interview Summary Data | Student Career Interest Survey Data | CTE - LMI Data | CCRB Consortium (Notes) Data

Based on industry focus group interview data; student career interest survey data; Pathways 2 Careers (P2C) Career Cluster LMI data; and CCRB consortium data; the following outline are the analysis & proposal recommendations for Bloomfield Schools Career and Technical Education (CTE) Career Pathways.

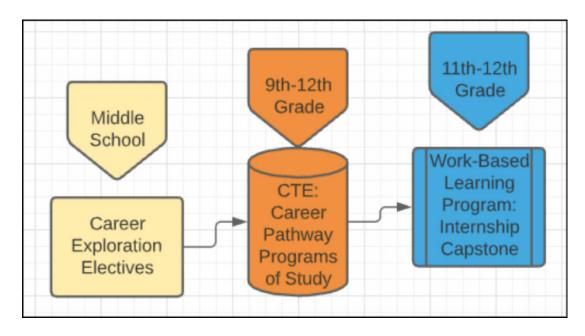
# Industry Focus Group Summary | CTE-LMI Data Analysis:

Jobs in Critical Demand: Health Science, Construction & Engineering,			
Manufacturing, Film, and IT & Cyber Security			
Health Science: Registered Nurse Manufacturing: Welder			
Health Science: Medical Assistant	Manufacturing: Machinist		
Construction: Mid-level Craftsmen	Film: Production Assistant		
Construction: Equipment Operator Film: Construction			
Engineering: Qualified Engineer IT & Cyber Security: Software Develop			
Engineering: Construction Materials IT & Cyber Security: Network Systems			
Technician Administrator			

#### **Industry Focus Group Summary Analysis:**

Ongoing Skills & Next Generation Skills Gap				
Work Ethic Problem Solving				
Teamwork – Interpersonal Effectiveness	Time Management			
Communication	Professionalism			
Respect	Positive Attitude			

#### **CTE Career Pathways Proposal: Sequence**



The above diagram is a visual of a college and career readiness sequence, beginning with career exploration elective courses as early as 6<sup>th</sup> grade, sequencing to CTE Career Pathway Programs, and ending with a [capstone] Work-Based Learning internship for a hands-on experience in the real world of work.

#### CTE Career Pathways Proposal: Sequence Defined

Bloomfield Schools – CTE Career Pathway Programs of Study: <u>Recommendations</u> Bloomfield Schools (6<sup>th</sup>-8<sup>th</sup>): Middle School Career Exploration Elective(s) **Recommendation 1:** 

Mesa Alta Junior High School - Career Exploration: Expansion

- Financial Literacy and Consumer Behavior (6<sup>th</sup> grade)
- Fundamentals of Employability Skills (7<sup>th</sup> grade)
- Career Exploration (8<sup>th</sup> grade)

Bloomfield Schools (9<sup>th</sup>-12<sup>th</sup>): CTE Career Pathway Programs of Study **Recommendation 2**:

## Bloomfield High School - CTE Career Pathways: Enrichment

CTE Pathway	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Digital Media Arts	Studio Art	3D	Dual Credit SJC –	Capstone:
(18.7% - #1 Student Rank)	(Visual Arts)	Animation	Film & Digital	WBL
			Media Arts	Internship
Construction &	Intro to	Advanced	Mechanical &	Capstone:
Architecture	Carpentry	Carpentry	Technical	WBL

(7.6% - #5 Student Rank)			Drafting	Internship
Business	Intro to	Entrepren	Principles of	Capstone:
(7.8% - #4 Student Rank)	Business	eurship	Marketing	WBL
				Internship

#### **Recommendation 3:**

## Bloomfield High School - CTE Career Pathways: Expansion

CTE Pathway	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
<b>Health Science</b>	Health	Health	Anatomy &	Capstone:
(17.8% - #2 Student	Occupations	Occupations	Physiology/Dual	WBL
Rank)	1	II	Credit SJC	Internship

#### REC #1 – Work-Based Learning Program Capstone: Expansion

The Work-Based Learning (WBL) internship capstone is the primary bridge between education to workforce. There is national evidence that school districts who've developed and implemented an employer driven WBL Program as the capstone for junior or senior CTE pathway students- generate a robust workforce pipeline, in addition to an average of "8% increase in graduation rates" (CTE Data Story, U.S. Department of Education).

The employer driven Work-Based Learning Model is designed with the aforementioned sequence,  $6^{th}$ - $8^{th}$  grade career exploration –  $9^{th}$ - $11^{th}$  grade CTE career program of study courses –  $11^{th}$ - $12^{th}$  grade WBL internship.

WBL Internship Semester Process Outline:

#### Pre-Internship

- 1. WBL Application
- 2. Counselors Screen Applicants
- 3. Students Register for Internship Course
- 4. 2-Week Employability Skills Bootcamp
- 5. Mock Interview Day
- 6. Employer Interview Day
- 7. Internship Placements

### **During Internship**

- 8. Weekly Employability Skills Survey (Mentor Feedback)
- 9. Weekly Employability Skills Reflections (Student Interns)
- 10. Bi-Weekly Employer Validated Timesheets

#### Post Internship

- 11. Student Intern Final Project (Panel Interview)
- 12. Intern, Mentor, Parent/Guardian WBL Formal Banquet

# VIII. Implementation Timeline | Bloomfield Schools- CTE Career Pathways/WBL Program

The following timeline is initiated once the necessary policy, procedural, and organizational structures has been accomplished to support these pathways.

Start-up Planning Timeline for Career Pathway Progra	 m
Recruit CTE Career Pathways Instructors	Months 1-3
Identify current school district instructors with an internal investigation of qualified candidates. Conduct recruitment efforts if needed.	
Form a Career Pathway Program Advisory Committee	Months 3-5
Identify school, employer, higher education, and parent representatives; establish a schedule of meetings and define members' roles and responsibilities; form task forces, e.g., expanding partners, technical curriculum, facilities, equipment.	
Identify/Prepare Program of Study Instructional Team	Months 3-5
Select a Lead Teacher; other teachers (career and academic), school and district administrators, and a counselor; provide professional development.	
Clarify Roles and Responsibilities for Design Phase	Months 3-8
Ask the Career Pathway Program Advisory Committee to plan and coordinate employer and community engagement; advise the Pathway Program Instructional Team to design curriculum, assure secondary-postsecondary-employer alignment, create an internal process for planning and student support, and develop roles for employer and community engagement.	
Develop Curriculum	Months 5-8
Have the teachers lead, draw on employers for technical input, examine related state standards, conduct Internet searches, visit other schools with Pathway Programs, and develop integrated curriculum ideas; design program scope for three levels of high school and additional postsecondary levels leading to relevant certifications and degrees. Integrate employability (soft) skills curriculum into each pathway.	
CTE Career Pathway Instructor Professional Development	Months 5-12
Investigate and initiate career pathway instructor professional development. Communicate and collaborate with other local school district career pathway teachers and best practices.	(Ongoing)
Coordinate the Career Pathway Program within the High School and	Months 6-9
College	
Inform the entire school staff, orient counselors, arrange cohort scheduling, schedule Pathway Program classes, and coordinate with employer leaders; integrate information into relevant career development or freshman	

seminar classes. Also reach out to San Juan College early in the process.	
Recruit and Select Students	Months 6-9
Create basic Pathway Program information to share with students and	
counselors; distribute information to all freshmen, accept and screen	
applications, hold interviews and parent meetings, identify and schedule	
students, and plan summer activity.	
Prepare Motivational Activities	Months 9-12
Identify activities that will make the Pathway Program appealing, including	
what types of student monitoring and rewards will be used.	
Welcome First Cohort of Students	Month 12
Plan Work-Based Learning Program	Months 12-16
Ask the Pathway Program Advisory Committee and REC-1 Executive Director	
to select/hire REC-1 WBL Coordinator; provide Work-Based Learning vision	
to new hire; establish goals and timeline for WBL Program research and	
development; designate program to start next school year.	

# IX. Cost Analysis | Bloomfield Schools- CTE Career Pathways/WBL Program

The cost analysis planning is a combination of current Bloomfield Schools CTE staff (stipends, PD), new FTE CTE staff, new Work-Based Learning Coordinator (REC-1), Professional Development (PD), and Materials and Equipment for the funding duration of 3 fiscal years.

CTE Staff Stipend/Salary	-
Current CTE Staff:	\$15,000/annual stipend x 3 = \$45,000/yr.
New FTE CTE Staff (Health Science;	\$72,000/yr.
Salary+Benefits)	
WBL Coordinator (Salary+Benefits):	\$90,000/yr.
Next Gen Skills/CTE – Instructor PD	-
Initial Yr. 1 (includes: food, travel):	\$50,000
Ongoing Yrs. 2-3:	\$30,000
Instructional Resources	-
Materials Yr. 1:	\$35,000
Equipment Yr. 1:	\$75,000
Additional Materials & Equipment Yrs. 2-3:	\$25,000

#### X. Conclusion

In summary, the research performed in collecting local, regional and national school district and workforce development data confirms the need to expand the current Bloomfield School District Career and Technical Education (CTE) Career Pathways

structure. "Beefing up" the current CTE course sequence is the initial phase that can occur with the most optimal, cost-effective outcome with the pathways that are currently in place at Bloomfield Schools; utilizing and training current middle school and high school FTE CTE staff.

Expansion is recommended as a secondary phase that runs parallel with the initial phase, proposing a new Health Science career pathway with a recommendation of a new FTE CTE Health Science instructor. In addition, recruiting a REC-1 Work-Based Learning Coordinator in order to finalize the Bloomfield School District CTE Career Pathway sequence; capping the sequence with internships and/or apprenticeships with local high-value business partners. Once the necessary policy, procedural, and organizational structures have been approved for the recommended Career Pathways at Bloomfield School District; the phases have the most realistic success with a 3-year development and implementation plan, e.g., XIII Implementation Timeline and IX Cost Analysis.

#### XI. Sources Cited

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