

The U.S. Bureau of Labor Statistics projects that STEM jobs will grow by more than 10% by 2030.



Median salary in 2020, according to the U.S. Bureau of Labor Statistics:  
**STEM jobs: \$89,780**  
 Non-STEM jobs: \$40,020



According to Pew Research Center, women comprise 48% of workers in the life sciences (biological or agricultural sciences), up from 34% in 1990.

## WORD SEARCH

There are many different job opportunities available in STEM industries, and we've hidden the ones listed below in this grid. Locate the provided words, which can be found horizontally, vertically or diagonally.

O B I V B W E B D E V E L O P E R Z F L  
 P O I I O U G U B Z B G Q Y A T F F O P  
 F F W O B F S U N N P K S V R W K P O H  
 O B E P M P V I Y M I H T R C F J Q D A  
 P T C J H E O E N O E V P Z H Y I Q S R  
 G G N N H Y D K T E D Y U X I M T G C M  
 E C T U Z O S I Q E S A F K T M H S I A  
 O P D R M A I I C B R S B D E I B A E C  
 G O J S W L Z H C A B I A K C K L L N I  
 R A T E K A E M Z A L N N N T A M P T S  
 A K Q C K D L Y U J L E T A A L R B I T  
 P Y H X Q U B P I H V T N O R L O X S N  
 H T I G X M A I E I Q N H G E I Y F T T  
 E P S Y C H O L O G I S T E I I A S I E  
 R B U R S X I O V E T V F W R N Z N T G  
 N N E R B Z E T F X D U L Q N A E P W O  
 K R A Y N Q M Y P P N Q T Y O P P E S T  
 T D E N T A L H Y G I E N I S T U I R N  
 G G U F A N E S T H E S I O L O G I S T  
 M X C I V I L E N G I N E E R Z T D N T

- |                     |                  |                    |
|---------------------|------------------|--------------------|
| Anesthesiologist    | Dental hygienist | Physical therapist |
| Architect           | Food scientist   | Pilot              |
| Biomedical engineer | Geographer       | Psychologist       |
| Business analyst    | Nurse            | Veterinarian       |
| Civil engineer      | Pharmacist       | Web developer      |

## DISCOVER DIFFERENT PATHS

Certain careers might come to mind when you think about STEM, but the possibilities are endless. We've listed some jobs below that you might not be familiar with yet. Take some time to research each role and list some of its responsibilities.

- |                          |                                   |
|--------------------------|-----------------------------------|
| Actuary _____            | Nanosystems engineer _____        |
| Crystallographer _____   | Orthotist _____                   |
| Data scientist _____     | Quantitative analyst _____        |
| Epidemiologist _____     | Security analyst _____            |
| Forensic scientist _____ | Speech-language pathologist _____ |
| Genetic counselor _____  | User experience designer _____    |

## SUDOKU

Sudoku is a Japanese puzzle that uses numbers to test logic and reasoning — skills that are key to STEM fields. To solve the puzzle below, every row across, every column up and down, and every three-by-three block of squares must contain 1 through 9 without repeating any numbers.

Hint: Where do you think 2 should be in the center block of squares?

6	5	9		1		2	8	
1				5			3	
2			8				1	
			1	3	5		7	
8			9					2
		3		7	8	6	4	
3		2			9			4
					1	8		
		8	7	6				



## MAKING HISTORY

Take a peek at some of the ways that WSU has contributed to many milestones in STEM.

- In the early 1940s, Wayne State alumnus Abraham Nemeth set to work inventing a customized Braille system for math and science notations. The Nemeth Code was so effective that by the 1950s, it was included in math textbooks to help blind scholars pursue their studies.
- WSU alumnus William O'Neill, M.D. — the nation's first surgeon to perform an aortic valve replacement through a catheter — pioneered the use of angioplasty to treat heart attacks in the 1980s.
- Wayne State University's College of Nursing opened its doors in 1945, becoming the first college in the country to offer a bachelor of science in nursing.
- In the early years of auto safety research, WSU Professor Lawrence Patrick volunteered himself for crash tests, subjecting his body to impacts at speeds of up to 45 mph to gather living human data. Harold Mertz, an engineering student that Patrick hired to oversee the tests, used this data for his thesis and was later hired by GM, going on to invent the world's first crash test dummy — which is still used today.

## POP QUIZ

Put your knowledge of Wayne State University to the test.

- In 1868, Wayne State was founded as:**
  - A law school
  - An engineering college
  - A software think tank
  - A medical college
- Our business school is named in honor of this entrepreneurial Detroit and major donor:**
  - Marshall Mathers
  - Mike Ilitch
  - Diana Ross
  - Henry Ford
- WSU is home to:**
  - The world's first successful open-heart surgery
  - The discovery of AZT for the treatment of AIDS
  - The country's first electric-drive vehicle program
  - All of the above
- Built in 1895, Wayne State's oldest and most recognizable campus building is known as:**
  - Big Wayne
  - The Tick-Tock-Clock Tower
  - Old Main
  - The Warrior Zone
- Wayne State University has been part of the fabric of Detroit for more than:**
  - 150 years
  - 3,000 years
  - 500 years
  - 75 years

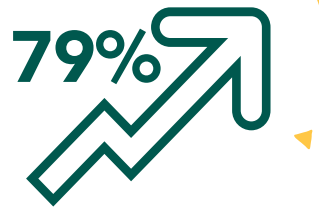
## WORD SCRAMBLE

Rearrange the letters to spell the word correctly.

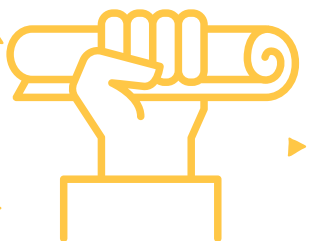
- NGREYE \_\_\_\_\_
- ECDO \_\_\_\_\_
- INONONVIAT \_\_\_\_\_
- TMEPONDEELV \_\_\_\_\_
- EITCAYTVRI \_\_\_\_\_
- CGILO \_\_\_\_\_
- HEEASRRC \_\_\_\_\_
- XPTEERMENI \_\_\_\_\_
- SBEUSSIN \_\_\_\_\_



According to the Michigan STEM Partnership, 30% of jobs in the metro Detroit area are in research and development and STEM-intensive industries.



Pew Research Center reports that STEM employment grew 79% — from 9.7 million to 17.3 million — between 1990 and 2018.



The U.S. Census Bureau reports that 40% of college-educated STEM workers also have a graduate degree.