



Using the FOSS Career Database for SCIENCE AND ENGINEERING

April 2020

With schools being closed, you're probably spending a lot of time at home. The good news is that a lot of scientists and inventors came up with their best ideas while spending time by themselves!

So, what kind of scientist or engineer might you want to be?

It's time to take a visit to the FOSS Career Database! The first activity will get you familiar with how to use the database. The second activity will focus on a specific career in health sciences.

Grades 4-8: https://archive.fossweb.com/beta/career_db/activity.html?grade=4_8

Grades K-3: https://archive.fossweb.com/beta/career_db/activity.html?grade=k_3

- Under "Choose your Grade Band," you'll see a button: "Search Scientists and Careers." Click on this button.

- On the next page, click on the "Career Survey" button.



- Answer up to three of the questions that appear on the next screen. If you aren't sure, answer at least one question now. You can always come back later and answer more questions!
- Click the "Search" button after you've answered at least one question.

Search | Career Survey

Search

Answer up to three questions to find different careers that match up with your interests!

Do you like working outdoors? 	Do you like solving puzzles? YES	Do you like learning about rocks? YES	Do you like working with animals, plants, or living organisms? 	Do you like learning about food and nutrition?
Do you like looking at things under a microscope? 	Do you like solving math problems? YES	Do you like coaching others? 	Do you like constructing or building things? 	Do you like working with models?
Do you like working in a lab? 	Do you like working with people? 	Do you like tinkering with machines? 	Do you like helping people solve problems? 	Do you like using computers to do research?

- The next screen might not have any careers listed. If it doesn't, find the section called "Refine Results." Click on the words, one at a time, until one or more careers appear.
- You can also use the "Go Back" button to return to the previous page.

Search | Career Survey Results

Go Back

Refine Results: puzzles rocks math

Oops! No results!

One at a time, click on terms in "Refine Results" to remove them from the results.

- Click on one of the careers to learn more.
 - Read the "Profiles of Scientists and Engineers" to learn more about real people who have this career.
 - The "Learn More about It..." links will take you to other websites.
 - Clicking on the "Education" button (Grades 4-8) will give you details of the education required for this career.
 - And be sure to click through the "Related Careers" to learn about other careers that might interest you!

Search | Career Survey Results

Go Back

Refine Results: puzzles rocks math

Computer Programmer 	Information Security Analyst 	Nuclear Physicist 	Pharmacologist
Physicist 	Software Developer 		

Technology | Computer Programmer

Education

PROFILES OF SCIENTISTS AND ENGINEERS

Grace Murray Hopper
Raye Montague
Steve Wozniak

Historical Scientists

Ada Lovelace

LEARN MORE ABOUT IT...

Science Buddies

What do computer programmers do?



Computer programmers write codes that tell computers what to do. These codes are

RELATED CAREERS

Computer Hardware Engineer
Computer Software Engineer
Computer Support Specialist
Computer and Video Gaming Programmer
Information Technology Technician

- Ready to learn about other careers?
 - Complete the survey again and see what you can come up with!
 - Or simply browse through different careers by clicking on the different categories on the Home page.
 - We'll keep adding careers and profiles, so please check back to learn more.

NOTE: As you use the database, be sure **NOT** to use the back button on your browser. Instead, use the "Go Back" and "Home" buttons you'll see on some screens, and the navigation bar you'll see throughout.

Vaccines and Careers in Science (For Grades 4-8)

What kind of scientist studies viruses?

Let's take a visit to the FOSS Career Database to learn more.

- Visit: https://archive.fossweb.com/beta/career_db/activity.html?grade=4_8
- Click on Health Science.
- Click on "Pathologist" in the right navigation bar.

The screenshot shows the FOSS Career Database website. At the top, there is a navigation bar with categories: Physical Science, Earth Science, Life Science, Health Science (circled in red), Environmental Science, Engineering, and Technology. A search bar is located on the right. Below the navigation bar, the 'Health Science' section is displayed. On the left, there is a list of 'PROFILES OF SCIENTISTS AND ENGINEERS' including Alan Hart, Amy A. Ross, Angela Lee Foreman, Barbara McClintock, Ben Barres, Chad Cheetham, Charles Drew, and Collin Diedrich. In the center, there are two interactive links: 'Do you like to... learn about how the human body works?' with an image of a human torso, and '...help people improve their health through diet and exercise?' with an image of a doctor and a patient. On the right, there is a list of related careers: Nurse Practitioner, Occupational Therapist, Oncologist, Ophthalmologist, Optometrist, Orthodontist, Pathologist (circled in red), Pediatrician, Pharmacist, and Pharmacologist.

- After you've read about what a **pathologist** does, check out the profiled scientists on the left.
- Learn more through the "Learn More about it..." links.
- Spend some time clicking through the "Related Careers" and reading about other scientists and medical professionals.

After you've spent some time looking around, take some time to answer these questions.

- What does a pathologist do?
- How might a pathologist help find a vaccine for a virus?
- Are there other careers that might help with finding a vaccine? What are these careers, and what do people in these careers do?
- Once a vaccine is found, what careers might help get the vaccine to the people that need it?

For more career exploration, click through some of the scientists and professionals profiled in the FOSS Career Database. Pick one or two that seem interesting to you. With an adult's permission, search the Internet to see what else you can learn about these people. Answer the following questions about each person you pick.

- What do they do?
- How did they learn to do it?
- Who helped them along the way?
- Would you want to do the kind of work they do? Why or why not?
- What kind of scientist might you want to be? If you don't know, keep looking through the FOSS Career Database until you find something that interests you!

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