

# **Siauliai Ragaine progymnasium**

## **Project**

### **Water related jobs**

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**Form 8a**

There are many jobs and professions in the world But I would like to present you one profession - *hydrologist*



# *Hydrology*

Water is one of our most precious natural resources. Without it, there would be no life on earth. Hydrology has evolved as a science in response to the need to understand the complex water system of the earth and help solve water problems. Hydrologists play a vital role in finding solutions to water problems, and interesting and challenging careers are available to those who choose to study hydrology.

# *Water and People*

Much of our water use is hidden. Think about what you had for lunch. A hamburger, for example, requires water to raise wheat for the bun, to grow hay and corn to feed the cattle and to process the bread and beef. Together with french fries and a soft drink, this all-American meal uses about 1,500 gallons of water-- enough to fill a small swimming pool. How about your clothes? To grow cotton for a pair of jeans takes about 400 gallons. A shirt requires about 400 gallons.



# *What Hydrologists Do?*

They may be concerned with finding water supplies for cities or irrigated farms, or controlling river flooding or soil erosion. Or, they may work in environmental protection: preventing or cleaning up pollution or locating sites for safe disposal of hazardous wastes. Persons trained in hydrology may have a wide variety of job titles. Scientists and engineers in hydrology may be involved in both field investigations and office work.

The work of hydrologists is as varied as the uses of water and may range from planning multimillion dollar interstate water projects to advising homeowners about backyard drainage problems.



# *Surface Water*

Most cities meet their needs for water by withdrawing it from the nearest river, lake or reservoir.

Hydrologists help cities by collecting and analyzing the data needed to predict how much water is available from local supplies and whether it will be sufficient to meet the city's projected future needs.

# *Careers in Hydrology*

Students who plan to become hydrologists need a strong emphasis in mathematics, statistics, geology, physics, computer science, chemistry and biology. In addition, sufficient background in other subjects-- economics, public finance, environmental law, government policy--is needed to communicate with experts in these fields and to understand the implications of their work on hydrology.



# *Hydrologists*



<https://www.youtube.com/watch?v=Uvp2AOMYWP>  
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<https://www.youtube.com/watch?v=yd3MvZEdQi4>

Sources :

<https://water.usgs.gov/edu/hydrology.html>

*Thanks for watching*

