Exploring the American Chemical Society Website

Follow the links indicated below, read the material accessed through the indicated links, and answer the following questions in your laboratory notebook. Please note that you will have to read a significant amount of material (including scrolling down long pages) and further explore internal links within the web pages indicated in order to find the answers to these questions. Notice that this webpage may help you determine what knowledge and skills will be useful in your career. In other words you may find this site useful in preparing your career portfolio. The symbol “ ↩” represents the enter key on your computer.

DO NOT use Internet Explorer to access the ACS site. Use a different web browser.

The American Chemical Society (ACS) webpage is at https://www.acs.org/content/acs/en.html.

From the American Chemical Society (ACS) webpage

Hover over the “Students & Educators” heading near the top of the page

Under the for “Students” heading ↩

Click on “Undergraduate” toward the left side of the page ↩

Then “Undergraduate Research” ↩

1. What is the difference between basic and applied research?
2. List at least 3 benefits of undergraduate research.
3. List at least 3 things you can learn from participating in undergraduate research.
4. How many hours per week should you expect to spend working in the lab for each hour of research credit you earn?
5. What is an REU? (You’ll have to scroll to near the end of the “Undergraduate Research in Chemistry Guide” page to see this)
6. List three different REU opportunities that interest to you.

From the American Chemical Society (ACS) homepage

Hover over the “Careers” heading near the top of the page

Under the “Explore career options” heading ↩

Then under “Undergraduate” ↩

Click on “inChemistry” ↩

Then click on the “Careers” tab at the top of the page ↩

Then on “The Chemical Industry Landscape” ↩

7. List the top 5 categories of chemistry industry employers
8. Briefly describe what chemists in the followin areas do:
   (1) Research and development
   (2) Product development
   (3) Quality control and regulation
9. Briefly describe at least 4 jobs currently advertised on the site.

10. What was the median salary for chemists with Bachelor’s degrees responding to the ACS membership survey in 2013?

11. What was the unemployment rate for chemists in 2013?

12. How did most chemistry graduates find jobs in 2013?

13. What is the purpose of a resume?
From the American Chemical Society (ACS) homepage
Hover over the “Careers” heading near the top of the page
Under the “Explore career options” heading
Click on “Resume & Cover Letter Tips”
Then on “Interview Strategies & Negotiation” on the left of the page

14. What is your goal for an interview?
15. What is the interviewer’s goal?
16. List three ways you might prepare for an interview.
17. List at least 3 questions you are likely to be asked during an interview.
18. List at least 3 questions you might ask during an interview.

From the American Chemical Society (ACS) homepage
Hover over the “Careers” heading near the top of the page
Under the “Explore career options” heading
Click on “Resume & Cover Letter Tips”
Then click on “Ethics & Professional Guidelines” on the left of the page

19. What are a chemist’s responsibilities to the public, the science of chemistry, the profession of chemistry, their employer, their employees, students, associates, their clients, and the environment according to the Chemical Professional’s Code of Conduct?

From the American Chemical Society (ACS) homepage
Hover over the “Students & Educators” heading near the top of the page
Under the “Students & Guidelines” heading
Click on “Safety Guidelines”
Then click on “Chemical Health & Safety Resources”

20. Pick three links from the page and list at least two interesting facts you found on each of the three links you explored.