

<b>Category Requirements – 30%</b>	
<b>10 pts.</b>	<p><b>Career Pathways Project—Part 1: Career Exploration (3 pages + journal notes)</b></p> <p><b>Interviews and Journal</b></p> <ul style="list-style-type: none"> <li>• Conduct at least 3 interviews (phone or in person) of people who have science-related careers—at least one of which should be someone who does not work as a scientist (e.g., patent lawyer, lab manager, grant writer, environmental safety officer).</li> <li>• Be prepared with interview questions.</li> <li>• Maintain a journal which should include dates, names of people interviewed and their organization, lists of interview questions, and responses. (These can be in a notes format—you need a record of what happened, but not complete sentences).</li> <li>• For each interview conducted, write a reflective statement (1-2 paragraphs), where you address your thoughts and impressions of each career. Which parts appeal to you? Would you consider pursuing the career of the people you interviewed? Why or why not?</li> </ul>
<b>20 pts.</b>	<p><b>Career Pathways Project—Part 2: Career Applications (5-6 pages)</b></p> <ul style="list-style-type: none"> <li>• Create a resume for yourself (1-2 pages). Include objective, science courses taken, laboratory/research skills, volunteer and leadership activities. Please see the Career Pathways Tips page for more resources about what makes a good resume.</li> <li>• Identify three applications for internships or job listings that appeal to you (does not count towards page limit). These could be listings that you are currently qualified for or would like to be qualified for in the future.             <ul style="list-style-type: none"> <li>○ For each of your choices, write a 1-2 paragraph statement that describes why you chose these particular listings. In addition, address how you see your choices as either an entry point that could lead to a career that you are interested in pursuing or how you might go about becoming qualified candidate for the job posting.</li> </ul> </li> <li>• Write cover letter (1 page) to respond to one of the job listings (either as yourself currently or as your future self). Please see the Career Pathways Tips page for more resources on how to write an effective cover letter.</li> </ul>

<b>Science Content– 30%</b>	
<b>30 pts.</b>	<p><b>Science Background Paper (5-8 pages)</b></p> <p>The scientific background paper should be based on the science behind job listing or internship you have chosen to respond to with your cover letter above. For example, if you decided to respond to a job listing for a genetic counselor, you may choose to write your paper on a genetic disease such as Down’s Syndrome or Parkinson’s Disease. You may also include a section on how a genetic counselor may approach clients when talking about difficult subjects. If bioengineering is interesting to you, you could write about how bioengineering is used to develop diagnostics for malaria and answer questions like these: Which molecules does the diagnostic detect? What role do these molecules play in malaria? What considerations do bioengineers need to take into account when developing a test that will be taken to rural places in Africa?</p> <p>Demonstrate a mastery of relevant scientific ideas by accurately explaining difficult concepts in terms a layperson could understand. The work should provide an appropriate combination of explanations, examples, and details that are specific, clear, and relevant to the topic.</p>

	Demonstrate a clear, organized pattern of thinking, and be effective in developing the central idea and providing explicit and expressive reasoning. The content of your work should reflect critical thinking about the topic.
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**Connections and Collaborations; General Written Requirements – 10%**

<b>5 pts.</b>	<p><b>Connections and Collaborations</b>          Include 1-2 typed pages describing the connections you have made with other people as well as the resources you have used the most. More weight is given in judging to those students who put more effort into locating and using available resources. A good use of resources may include working with an advisor or mentor, making arrangements to tour a company, interviewing an adult in your field, in addition to reading an important paper or uncovering an invaluable website. What did you learn? How did this resource help you? An interview with an adult in the field carries far more weight than a Google search. You do <i>not</i> have to request a mentor through NWABR to excel in this area.</p> <p>If a qualified adult (i.e. your Expo Mentor, someone you interviewed or a tour guide at site visit) significantly helped you with your project, please include:</p> <ol style="list-style-type: none"> <li>a) The person’s name, title and contact information.</li> <li>b) Dates you emailed, talked on the phone or met.</li> <li>c) Your thoughtful reflections on the experience of working with that person</li> </ol>
<b>5 pts.</b>	<p><b>Paper Format and Annotated bibliography</b>          Papers should be typed/word processed with one-inch margins.          Use an easily readable font such as Times Roman or Arial, 10-12 point, double-spaced.          If included, illustrations must be neat and applicable, with a title and a source.          Number your pages and label section headings. Consistently follow the rules of Standard English for usage, spelling, capitalization, and punctuation. If you are using Windows <i>Vista or 7</i>, please use the ‘save as’ function to save your paper as a “Word 97-2003 Document.”</p> <p>Annotated bibliography should be in standard MLA or APA format. Use a minimum of 5 sources. The bibliography should include all books, papers, journal articles, and communications used in your research. For at least 5 sources, provide one reason why you believe the source is credible and describe how it was used in your project.</p>

**Creativity -- 10%**

<b>10 pts.</b>	<p><b>Creativity</b>          The most successful projects have been ones that are not simply ‘reports’, but look at careers and the biotechnology/biomedical industry in unique ways. Show your ability to creatively approach or solve a problem, or present evidence of your understanding in ways that are novel or unique. Your project should reflect your special insights and abilities.</p>
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<b>Poster/Interview at Expo Event – 20%</b>	
<b>10 pts.</b>	<p><b>Interview</b>  <i>Judges will be looking at your effectiveness in communicating your project to them, and your understanding of your topic.</i></p> <p>Your judge will want an overview of your project - practice giving a short (2-3-minute) 'walk-through' of your project that explains it in straightforward terms. You will receive written feedback from your judge regarding the strengths of your project, and how you could make it even better in the future.</p> <p><i>The following are samples of the types of additional questions a judge might ask you: Why were you interested in this topic? What did you learn from doing your project? What was the most enjoyable/difficult aspect of doing this project?</i></p>
<b>10 pts.</b>	<p><b>Poster</b></p> <p>Displays must be freestanding and have the following maximum dimensions: 4 feet width, 2.5 feet depth, and 3 feet height (from table).</p> <ul style="list-style-type: none"> <li>▪ Put your project title at the center of the display</li> <li>▪ Include the same information that is on your cover sheet (name, etc.)</li> <li>▪ Make sure your writing is large enough to be read from 3 feet away.</li> </ul> <p>Use visual aids that relate to the topic and make the viewer want to learn more about it.</p>
<b>100 points total</b>	

## **What you need to do on or before April 22nd, 2018**

**Register** for the Student Bio Expo. Student registration will be open between April 2nd and the deadline April 22<sup>nd</sup> Sunday midnight, 2018..

**Submit** an electronic copy of your project to NWABR (and your teacher) using the **BOX cloud storage**. Further registration and submission information will be posted at: <https://www.nwabr.org/events-programs/student-events/student-bio-expo>

## **What you need to bring to the Expo**

Bring a hard copy of all your work. Include the following:

- Cover Sheet**
- Career Pathways Project—Parts 1 and 2**
- Science Background Paper**
- Bibliography + Connections and Collaborations**
- Poster**

# Career Pathways Tips

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Biotechnology and medical technology comprise one of Washington state's most rapidly growing economic sectors. This project category gives you the opportunity to explore different career paths in science.

*This project category requires that you do interviews with at least 3 people with jobs in science*

## Major Resources:

During your initial exploration of careers, you might find it useful to check out the resources that NWABR has compiled for career exploration.

A sampling of jobs that involve science can be found here:

- <http://www.nwabr.org/students/exploring-careers>

Please consider these profiles as research. You do not need to limit yourselves to interviewing people with these specific jobs. Please feel free to explore other jobs that science-related.

Here is a link to several websites about “Career Paths in Biomedical Research and Biotechnology”:

- [http://www.nwabr.org/students/career-planning#Career\\_Paths](http://www.nwabr.org/students/career-planning#Career_Paths)

NWABR has also developed and compiled many online resources for **building resumes, finding internships or jobs listings, writing effective cover letters**, and interview skills or tips (geared towards those who are being interviewed for a job). Those resources can be found here:

- [http://www.nwabr.org/students/career-planning#Find\\_Job](http://www.nwabr.org/students/career-planning#Find_Job)

## Other Resources:

[Monster.com](http://www.monster.com)—online resource where you can look and apply for jobs, as well as get resume and cover letter tips

Career Center Library at the University of Washington  
(<http://careers.washington.edu/Resources/Career-Center-Library>)

## Sample Interview Questions

### Careers

- What kind of background and training is required?
- What are your job responsibilities? How much training was provided on the job? How are new employees mentored, if at all?
- Description of typical workday
- Opportunities for Advancement
- Salary Ranges and other benefits
- What got you interested in this career in the first place?
- What are the areas of growth in your field?
- What kind of advice would you give to someone who wanted to pursue a career in what you do?



