



Kacia Cain
Anatomy & Biotechnology
Des Moines Central Campus
2015 STEM Resource Document
South Central Region



BIOTECHNOLOGY 2015

FINAL SEMESTER PROJECT – 200 PTS*

EACH STUDENT WILL SELECT A BIOTECHNOLOGY/MEDICAL/BIOLOGICAL/SCIENCE
SPECIALTY

Shadow this professional for a minimum of 4 hours.

This will count as a school field trip.

ALL OF THE FOLLOWING WILL BE IN A POWERPOINT PRESENTATION

***Presentation must work with either of the computers in the room. Please test BEFORE the day of the final because these computers lack most bells and whistles.**

***Remember the presentation needs to be interesting, educational and entertaining for your classmates. Include pictures either from the job shadow or from the Internet.**

1. Explain the profession, in general and specific to your shadow including a description of the profession, the type of work done and all other interesting facts and details. (RESEARCH)
2. Give the name and business address of the person you shadowed and at least 2 other local practitioners.
3. Identify employment opportunities and earnings including the starting and average salaries as well as locally and nationally. (RESEARCH)
4. Name schools that award degrees or training in this specialty. (RESEARCH)
5. How long does the training take? (RESEARCH)
6. What classes (high school and/or college) are required? (RESEARCH)
7. Log of shadowing experience including times and dates and information.
8. Interview this professional - Place a copy of the questions and answers on your display.
 - A. The best and worst part of their job
 - B. Health problems dealt with by the professional
 - C. Specific techniques or equipment that is used
 - D. Dangers they may face
 - E. Their favorite success story
 - F. Pros and cons of this professional (as they see them)
 - G. Stress
 - H. Hours /work schedule
 - I. Frustrations
 - J. Changes in the field
 - K. Advice
 - L. How did you get interested in this profession?
 - M. What personality type would best fit this profession?
 - N. What internship opportunities does your company offer?

9. Other interesting facts and information about your job shadow and the profession.
10. Your opinion and evaluation of:
 - A. Your shadowing experience
 - B. The professionals you have met
 - C. Would you choose to make this profession yours? Why or why not?

DON'T PUT THIS OFF---YOU HAVE ABOUT FIFTEEN WEEKS TO GET DONE! THIS SOUNDS LIKE A LOT OF TIME BUT YOU WILL BE DEALING WITH A VERY BUSY PROFESSIONAL WHOSE TIME WILL BE VALUABLE AND PUTTING TOGETHER A CREATIVE POWERPOINT PRESENTATION TAKES TIME--- PLAN FAR AHEAD!

EXAMPLES OF MEDICAL/BIOLOGICAL SPECIALTIES:

| | | |
|------------------|-----------------|-----------------------|
| psychologist | podiatrist | dentist |
| internist | dermatologist | pediatrician |
| nurse | nurse's aid | physical therapist |
| microbiologist | surgeon | respiratory therapist |
| neurologist | oncologist | gastroenterologist |
| psychiatrist | pathologist | general practitioner |
| optometrist | ophthalmologist | occupational therapy |
| dietitian | orthopedist | genetic counselor |
| allergist | epidemiologist | lab technologist |
| cardiologist | urologist | gynecologist |
| immunologist | endocrinologist | endodontist |
| anesthesiologist | radiologist | botanist |
| paramedic | chiropractor | physician's assistant |
| veterinarian | zoo keeper | scientist |

There are many more to choose from and I have access to a variety of Biotechnology specialties but we need to get it set up early.

Remember that your fellow classmates will be viewing and evaluating and hopefully learning a lot about your chosen profession. Make your presentation interesting. You should have had a good time making it.

***If the semester project is not completed by the day of the final, then the student's grade will be lowered one letter.**

***Photocopy (bring to class) and send a thank you note to the persons(s) you shadowed.**