Activity 1.6b Engineering and Related STEM Careers

Introduction

Because of their technical training, critical thinking skills, and problem-solving capabilities, engineers have a wide range of career choices. Many employers value the technical knowledge gained and the ability to understand and create technical information built in the course of completing an engineering degree program. And although many engineers choose to perform design work, some choose other, less traditional or less well-known paths in which their technical abilities and critical thinking skills prove valuable.

In this activity you will research an engineering or STEM career and create a Career Poster or information sheet to display in your classroom.

Equipment

- Computer with Internet access

Procedure

1. Select a career related to engineering or STEM from the list below.

UNIT	Career
2	Drafter Mechanical Engineer Mechanical Engineering Technician
3	Statistician Logistician Industrial Production Manager
4	Mathematician Commercial and Industrial Designer
5	CAD Technician Chemist and Materials Scientist
6	Technical Writer Materials Engineer
7	Industrial Engineer Industrial Engineering Technician Machinist/Tool and Die Makers
8	Sales Engineer Physicist Electro-Mechanical Technician
9	Engineering Manager Other engineering (or related career) of interest

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Helpful resource: The Bureau of Labor Statistics: **http://www.bls.gov/**

2. Create a Google Slides presentation that briefly provides the following information related to the career:

    a. Brief job description
    b. Required training—high school and post-secondary
    c. Skills and characteristics of a person successful in this career
    d. Typical wages
    e. Job outlook
    f. Professional associations
    g. A job listing for this career to company name/location, job description/responsibilities, educational requirements, preferred experience/skills

3. Your presentation must…
    a. Be at least 8, but no more than 12 slides (includes the title slide and works-cited slide)
    b. Be presented in 3-4 minutes
    c. Have appropriate visual interest with color, text, and images
    d. Contain at least one graph or chart to present information
    e. Include a works cited slide at the end and parenthetical citations throughout the presentation

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