



## Student Guide

### ***Careers in Nanoscale Science and Engineering***

**Overview:** Your group will create a portfolio of a career in nanoscale science and engineering. It is important to note that many of the jobs in nanotechnology are not listed as nanotechnology but as another field. Because nanoscale science and engineering is very interdisciplinary, jobs come from all fields of science and engineering.

You will research a specific career and include in your research the following:

- Career description – what is the career?
- Education and training – what is the minimum and maximum education requirement?
- Skills required – are special skills required?
- Other qualifications – what other qualifications are required for the career?
- Salary information
- How is nanotechnology applied to the field?

From this information you will develop the career portfolio to be presented in class and to include:

Entry 1: Help Wanted Ad (based on your research)

Entry 2: Career Collage (use your imagination)

Entry 3: Career Commercial

Entry 4: Interview questions

Career Domains:

- Electronics/semiconductor industry
- Materials science including textiles, polymers, packaging, among others
- Auto and aerospace industries
- Sporting goods
- Biotechnology
- Computing
- Medical fields and pharmaceuticals
- Environmental monitoring, control, and remediation
- Food science including quality control & packaging
- Agriculture
- Forensics
- Geosciences
- Microscopy
- University and federal lab research
- Military and national security
- Energy capture and storage