Describe your overall duties/responsibilities as a Senior Materials Design Engineer:

My duties include developing computational models and software to predict materials microstructure, properties and performance. Additionally, I design and develop new materials to meet target properties/performance using computational. My role also includes leading and managing materials-related projects with government or commercial clients.

Explain the skills/abilities that are required for being successful in your role:

Technical skills include materials knowledge and programming skills; Communication skills to present and explain work to clients/public; Team management and collaboration.

What advice would you give to students who are considering majoring in Materials Science and Engineering?

Keep learning and exploring new technologies, new areas, and new materials. Programming is more and more important in industry, and it is a big plus as a basic skill.