

## **Lancaster Science Factory – Volunteer Cub Scout Program Instructor**

The Lancaster Science Factory is seeking an adult volunteer to assist the museum with the existing Webelos Engineering Activity Badge Program.

The Webelos Engineering Activity Badge Program meets on the second Saturday of every month from 2-6 PM at the LSF, and is typically attended by 12-24 participants from multiple packs. Scouts attending will have adult supervision from their pack. During the program, scouts will complete engaging hands-on activities and discussions that fulfill the two mandatory requirements as well as four elective requirements for the badge.

The ideal volunteer will have a degree and career experience in an engineering discipline, can discuss the history, educational requirements, required skills, day-to-day activities, and personal experience in engineering with program participants, can effectively lead components of the event alone or with support, and understands the programs and goals of the Boy Scouts of America. The volunteer should hold a current BSA Youth Protection certification and be approved by PA-Dutch Council BSA.

The volunteer will be fully trained by current staff and is expected to observe and possibly participate in at least one of the sessions taking place on the following 2014 dates: **March 8<sup>th</sup>, April 12<sup>th</sup>, and/or May 10<sup>th</sup>**.

Program activities include:

- Leading a brief interactive discussion of who engineers are and what they do, brief reviews of engineering disciplines, and educational requirements.
- Discuss architectural drawings and instructing scouts to create a floor plan of their house.
- Basic electrical circuits involving a light bulb, batteries and a switch (series and parallel circuits).
- Discuss power generation and distribution as well as electrical safety.
- Bridge building activity
- Lead a group experiment demonstrating pulleys as a simple machine
- Lead the group in catapult construction using K'NEX building kits.

If interested, please contact: Lauren Schaller, Education Coordinator at 717-509-6363x105 or [lschaller@tlsf.org](mailto:lschaller@tlsf.org).