

Scientists, Technologists, Engineers, Wanted!!

The Nova Advancement Program

- The Nova Awards program is Scouting's newest and most exciting adventure. With an emphasis on science, technology, engineering, and mathematics (STEM), Scouts can explore the wonders of different STEM fields as they work toward a Nova award. Cool experiments, awesome field trips, and fun activities are just part of the full STEM experience for interested Scouts.
- The Nova program encourages Cub Scouts, Boy Scouts, and Venture Scouts to explore the STEM aspects of the Cub Scout belt loops, Boy Scout merit badges, and Venture activities that they are already doing AND have other fun activities like:
 - Be a rocket scientist! Design and fly a rocket and discover how to make it go higher.
 - Explore biology, nature, weather, and gravity. How do water slides work?
 - Build a catapult and research how to make it shoot farther.
 - \diamondsuit Design and use a secret code. Explore computer simulations of moving objects.
 - Research how things work and how to do science experiments.
 - \diamond Hang out with an engineer, scientist or mathematician and learn what they do.
 - Work with your Nova Counselor to explore science and technology and earn the awards too.











Parents & Adult Leaders - Shape the next Einstein from your Scouts Be a **Nova Counselor**

The Nova Award Counselor is much like a Merit Badge Counselor. You need not be an expert in STEM, but you must be willing to work with Scouts, help them explore the topics, ask questions that get them to think and make connections, and help them work toward completing the awards. The back of the Nova guidebook is a good place to start. Scout units approve their own Nova counselors.



Supernova



The Supernova Advancement Program

- ♦ The Supernova awards challenge Scouting youth who have a greater interest in the science, technology, engineering, and mathematics (STEM) fields to experiment, understand the outcomes of these experiments, and present their findings to their Supernova Mentor. The awards build on the Nova awards with activities providing greater learning and increasing complexity in the youth's knowledge. Completing the requirements takes more work and includes some research. Most Supernova activities take several weeks or months to complete.
- ♦ Each STEM field offers a choice of three Supernova activity topics. These are two-part, hands-on, high-level activities created to challenge Scouts along the STEM journey to excellence. Part 1 involves research, preparation, set up, coordination, and/or organization. Part 2 includes elements such as analysis, reflection, experimentation, design, or invention, and culminates in a report created by you.
 - → Explore Coke[™] and Mentos[™] explosive chemistry.
 - ♦ Explore communications technologies.
 - ♦ Survive the Egg Drop Contest.
 - ♦ Explore simulations of bungee jumping and geyser eruptions.
 - Research how things work and do science experiments.
 - Research a famous engineer, scientist or mathematician and learn what they did.
 - ♦ Teach other Scouts about science, technology, engineering and mathematics.
 - ♦ With your Supernova Mentor, explore science and technology and earn the awards too.

The Supernova Mentor

For more information go to --

- Because the Supernova program is more complex and demanding, a Mentor is an adult who has successfully negotiated a STEM career path or has other subject matter expertise (such as hobbies or other special training) and is willing to share accumulated wisdom and experience. The adult will work closely with the youth for weeks or months, providing significant input and guidance to Supernova candidates.
- → To become a Supernova Mentor please complete a Supernova Mentor application and turn it into the Scout Service & Training Center



Prepared. For Life."