

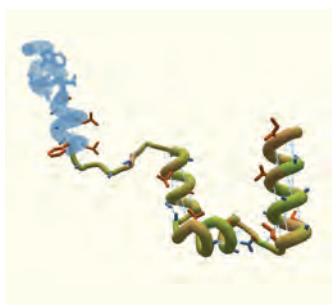
STEM Education:

Anytime, Anywhere

Anytime, anywhere access to information provides unparalleled opportunities to advance STEM learning. These include informal settings, such as citizen science projects, interactive educational websites, IMAX movies, science museums, television shows and much more. These examples illustrate the enthusiasm and interest EHR-funded science programming, whether through formal or informal means, can generate for learners of all ages.



“Cyberchase,” the Emmy-Award winning animated series on PBS KIDS GO!, tells the story of three kids who use math and problem-solving to thwart the dastardly Hacker. “Cyberchase’s” extensive multimedia website features hundreds of videos, games and activities to support STEM learning. Award # 1010981



The revolutionary computer game “Foldit” enables online users to contribute to important scientific research by solving the problem of how the 3-D structure of protein molecules is arranged. Online users solved the structure of an enzyme in an AIDS-like virus whose configuration had stymied scientists.



“Peep and the Big Wide World,” an animated series, gives wings to the innovative idea of teaching science to preschoolers. Winners of both Emmy and Parent’s Choice Awards, “Peep” reaches millions of children each season, teaching them basic science concepts and skills like measuring, comparing and estimating. Award # 1222607



The “Lost Ladybug Project” recruits people to submit photographs of ladybugs from their local areas to help scientists determine how and why ranges of economically and ecologically important ladybug species are rapidly changing. Award # 1114525



The museum exhibit, “CSI: The Experience,” immerses guests in hands-on science while leading them through the challenge of solving a crime mystery. Through activities featuring real equipment and multimedia presentations, guests sample STEM science and understand the significance of each discipline in cracking crimes. Award # 0307473



“Zooniverse” is home to the Internet’s largest, most popular and most successful citizen science projects. Its nearly 275,000 users collect data on well-defined research questions, from solar storm formation to tracking tropical cyclones and from seafloor exploration to characterizing whale sounds. Award # 1041419



What Are Animals Thinking?

Soon to begin a sixth season, “NOVA scienceNOW” is a magazine-style offshoot of the popular NOVA series. The show covers headline-making science news. The series has been nominated for four Emmy Awards and won a CINE Golden Eagle award. Award # 0917517



As the only PBS series built on best practices for engaging 8 to 12-year-old girls in STEM, “SciGirls” showcases bright, curious tween girls putting science to work in their everyday lives. Each episode follows middle-school girls eager to explore the world around them as they discover that science and technology are everywhere. Award # 1323713