



Design Challenge Exhibits

See it in the film and then try it for yourself!

Three original Design Challenge Exhibits have been developed that link directly to content seen in *Dream Big*. These exhibits are designed for museums and science centers to display in their maker spaces, design studios, or other areas where families come together to tinker, experiment and solve an engineering challenge just like engineers do.

A design manual with instructions for building each exhibit will be available in November.

Museum visitors will experience what engineers do!



Build a Cable Stayed Bridge

Families can experiment with a modern-day cable stayed bridge model and test the effect of gravity as they experiment with different loads. By using different materials they'll learn that while gravity constantly pulls a bridge roadway down, cables or supports must supply an opposing force upward.



Do it Yourself Wind Tunnel

See how engineers in the film used a wind tunnel to design the world's second tallest building. Young engineers can then experience with a wind tunnel on their own. By adjusting different shapes and sizes of architectural forms they will learn how small structural changes can create a huge aerodynamic change.



Seismic Shake Table

Future engineers can test how to build structures to withstand earthquakes just like engineers in the film. Kids will discover that using designs and materials that are flexible are often best able to withstand seismic forces.