

# CNS-ASU Provides Support and Ethical Guidance for InnovationSpace Students

InnovationSpace is a transdisciplinary education and research lab that seeks to teach students how to develop products that not only create market value, but also serve real societal needs while minimizing impacts on the environment. In the two-semester course for senior undergraduate students, interdisciplinary teams develop, test, and refine real-world product concepts for paying sponsors including Intel and Herman Miller.

Since 2006, CNS-ASU has supported the work of three teams annually. CNS-ASU faculty provide teams with professional and ethical guidance during all stages of product development to help them understand how the technology they incorporate functions in society and to encourage them to consider such ethical issues as sustainability, equity, and recyclability.

For more information on **InnovationSpace**, visit <http://innovationspace.asu.edu>.

The 2013-14 InnovationSpace is focused on products to solve childhood safety issues. One team is developing a force sensor to improve administering CPR to infants and young children.

The sensor rests on a child's chest during CPR and lets the user know whether he or she is applying appropriate force during CPR compressions. Nanosensors enable the force sensor to be small enough to avoid interfering with the CPR process, and piezoelectric materials eliminate the need for a battery, which could also interfere.



Team member **Joleen Jansen**, an ASU senior studying industrial design and design management, was chosen to represent ASU at the Industrial Designers Society of America (IDSA) Western District Conference, where she presented the CPR force sensor project. She was selected from among 11 western district representatives to present at the IDSA International Conference in August. Jansen and her team collaborated with Real-Time

Technology Assessment (RTTA 3) faculty at CNS-ASU. RTTA 3 is co-led by **Dr. Cynthia Selin** at ASU and **Dr. Kelly Campbell Rawlings** at USC focuses on exploring plausible futures and elucidating public preferences about the future.

