



CASE WESTERN RESERVE  
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think beyond the possible<sup>SM</sup>

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### **Case Western Reserve University showcases ingenuity at CES 2016**

*From high-speed blood tests to virtual hugs, innovation infrastructures to insights*

More than 30 Case Western Reserve University students, staff and alumni will showcase their inventions, start-up ventures and entrepreneurial and innovation resources on a global stage: CES, produced by the Consumer Technology Association, in Las Vegas Jan. 6-9.

It marks Case Western Reserve's third consecutive year exhibiting at the event—and largest representation yet. CES, which annually attracts more than 170,000 visitors from all over the world, introduces next-generation innovations to the marketplace.

As a key institution in Cleveland's emergence as a rising start-up city nationally, Case Western Reserve's exhibit of 10 booths at CES will display and demonstrate the following and more:

- Apollo Medical Devices is developing a rapid blood-testing technology that can return results in five minutes with just a single drop of blood. The portable analyzer can be used bedside or in the emergency room to speed diagnoses, decision-making and treatment. Punkaj Ahuja, Apollo's founder and chief technology officer, is a PhD student in biomedical engineering.  
<http://www.apollomedicaldevices.com>
- Xyla Foxlin, a mechanical and aerospace engineering undergraduate, is building pairable teddy bears that can transmit a hug from parent to child or brother to sister, across town or across continents. When one bear is hugged, she said, a

suite of squeezable analog sensors begins the process of sending a Wi-Fi message to the other bear—and that bear will vibrate, making a physical connection. <http://parihug.com>

- EveryKey, a Bluetooth-enabled wristband or key ring accessory unlocks phone, laptop, tablet, home door, car door and other controlled-access devices when nearby. When the user walks away, the device locks down. If lost, the owner can remotely freeze the device. Christopher Wentz, founder and CEO, is a 2013 CWRU graduate. Several current students are among the company's employees. <https://everykey.com/>
- PrintSpace 3D manufactures and develops high-performance 3-D printers and custom 3-D printing applications using advanced materials. Known for sleek design, large print volume and more than 25 materials from which to select, PrintSpace 3D printers are used by laboratories and universities across the country. Founder Mark Jaster, a CWRU alumnus, has worked with NASA on 3-D printing in orbit. <https://www.printspace3d.com>
- Intwine Connect, a “spin-in” based in the Cleveland suburb of Chagrin Falls, develops hardware, software and services that allow consumers and businesses to monitor and manage electronics, energy use and indoor air quality through their Internet-connected devices. President and CEO Dave Martin earned an MBA from the university's Weatherhead School of Management. <http://intwineconnect.com>
- Radhika Vazirani an undergraduate student majoring in biomedical engineering, is developing the Digital Doppler Display, a display that attaches to implantable Doppler sensors used in hospitals to measure blood flow. The display would improve care by continuously, silently and objectively monitoring flow and sounding alarms when flow is disrupted. Ultimately, Vazirani plans to build a complete portable device doctors can use for remote monitoring.
- Representatives of the City of Cleveland and the university will highlight partnerships, including the creation of the Cleveland Health-Tech Corridor and commercial 100 gigabit fiber network. The corridor includes more than 135 health technology and high-tech businesses, receiving hundreds of millions of dollars in research funding. Four startups were acquired by publicly traded companies in the last six months. <http://www.100gigcle.org>
- The Larry Sears and Sally Zlotnick Sears think[box] has helped generate more than a dozen patented devices in three years. Faculty and staff leaders will discuss one of the largest university-based makerspaces in the world. Open free to the campus and public, the workshop for innovation and collaboration will

expand to seven stories and 50,000 square feet of space for generating ideas to starting a business. <https://engineering.case.edu/thinkbox>

Many of the innovations were made possible through support of the Burton D. Morgan Foundation, <http://www.bdmorganfdn.org/>; CWRU LaunchNet, <http://students.case.edu/cwrulaunchnet>; and Case Western Reserve's Technology Transfer Office, <https://www.case.edu/research/faculty-staff/tto/>.

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***Case Western Reserve University is one of the country's leading private research institutions. Located in Cleveland, we offer a unique combination of forward-thinking educational opportunities in an inspiring cultural setting. Our leading-edge faculty engage in teaching and research in a collaborative, hands-on environment. Our nationally recognized programs include arts and sciences, dental medicine, engineering, law, management, medicine, nursing and social work. About 4,900 undergraduate and 5,900 graduate students comprise our student body. Visit [case.edu](http://case.edu) to see how Case Western Reserve thinks beyond the possible.***