



BIOMEDICAL AND HUMAN SYSTEMS

CREARE WORKS ACROSS A BROAD SPECTRUM OF BIOMEDICAL APPLICATIONS.

Our diverse blend of engineering skills is well matched to the demanding multidisciplinary requirements of our biomedical clients. Our expertise in computer simulation, novel fabrication techniques and materials, and interfacing with the clinical environment enables us to resolve difficult issues in product design, performance, and manufacturing. Examples of past or ongoing development efforts include:

- Innovations for cardiac electrophysiology
- Needle-free technologies for mass vaccination
- Physiologic monitoring for divers
- Cryogenic systems for producing medical grade oxygen
- Noninvasive acoustic bubble-sizing instrumentation

We frequently collaborate with leading clinicians.



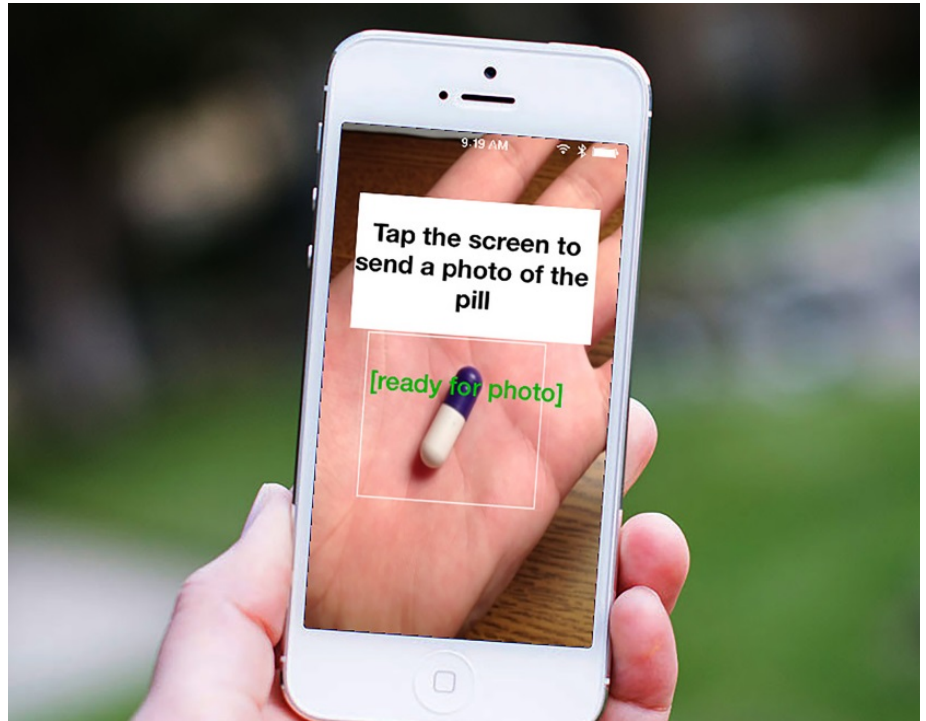
Our technology is often clinically tested.

**Innovative solutions & devices
in fields ranging from medical
imaging to aircraft oxygen
systems**



Hearing Evaluation

Hearing can provide profound insights into a person's health. Creare has been active in developing ways to assess hearing, whether among HIV-positive patients in Africa, young children in noisy environments, on the Space Station, or for military hearing fitness for duty. Our hardware and software enable specialists to rapidly measure the impact of hearing changes. One example is the Creare Wireless Automated Hearing Test System, which features noise-attenuating ear cups that enable an accurate hearing test without a sound booth. The headset communicates via Bluetooth to a tablet for conducting the audiology test.



Creare engineers develop mobile apps for many applications.

Protective Clothing

Beginning with computer simulations, Creare has predicted the protection afforded by garments against chemical agents. Our work continued into the laboratory, where we evaluated different fabrics and closures and devised improved test cells.



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