

## Seismic Stations for California's Earthquake Early Warning System, ShakeAlert



Today, the technology exists to detect earthquakes so quickly that an alert can reach millions of people before strong shaking arrives. The UC Berkeley and its partners operating California's seismic network, CISN, are developing and implementing the ShakeAlert earthquake early warning system to identify and characterize an earthquake within few seconds after it begins. We quickly calculate the expected intensity of ground shaking, and can send warnings to people and infrastructure in harm's way.

To reliably distribute warnings for all parts of the State with high earthquake hazard, it is important to have a robustly operating, dense network of seismic stations capable of providing data that can be used in ShakeAlert. The blue dots on the map below are the stations contributing to ShakeAlert now. Particularly in Northern California, more sites are needed (green triangles, yellow squares). We at UC Berkeley and our CISN partners are looking for locations where we can install new earthquake monitoring stations. The sites should have little civilization noise from nearby sources (vehicles, pumps, farm animals) and ideally, bedrock near the surface.

In addition to contributing to ShakeAlert, the new stations will also support the mission of the CISN, to operate a reliable, modern, statewide system for producing earthquake information for the benefit of public safety, emergency response, and loss mitigation.

If you are interested in hosting a seismic station that will contribute to ShakeAlert, or for more information contact:

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Other information about our project:  
 ShakeAlert: [shakealert.org](http://shakealert.org)  
 CISN: [cisin.org](http://cisin.org)

UC Berkeley Seismological Laboratory:  
[earthquakes.berkeley.edu](http://earthquakes.berkeley.edu); USGS: [earthquake.usgs.gov](http://earthquake.usgs.gov)

