

# CORPORATE PROFILE

*"...Satisfying the measurement instrumentation needs of our customers."*



# Who We Are

Campbell Scientific uses innovative technology and services to assist nations around the world be better prepared to mitigate extreme climate events. We help provide clean air and water, efficient sources of renewable energy, a reliable supply of quality food, well-built infrastructure, and safe and efficient transportation. We do this by working with our business partners and clients to convert reliable measurements into actionable insights because we believe what we do makes a difference—a difference in the lives of our clients and employees, a difference in the communities in which we live, and ultimately a difference in the quality of life we enjoy on this planet.





## Our History

Campbell Scientific was established in 1974 in Logan, Utah, United States. This location remains the corporate headquarters. Manufacturing, sales, and support offices are now in fourteen locations around the world, and most products are manufactured at the U.S. facility. Globally, Campbell Scientific employs nearly 700 individuals, with over 300 people in engineering, production, sales, marketing, and administration departments located at the facility in Logan.

Founded by Eric and Evan Campbell, the two brothers combined their experience and education, focusing their efforts on establishing the emerging company. The first product designed and manufactured was the CA9 Path Averaging Laser Anemometer, which was developed for the U.S. Army, White Sands Missile Range, New Mexico. The CA9 was used to study wing-tip vortices. It confirmed that under

common wind conditions, these spiraling air shafts—caused by aerodynamically clean, but heavy aircraft—would sporadically relocate in the center of the runway.

The CR5 Digital Recorder was introduced a year later, in 1975. It was the first battery-operated system that could make time-averaged measurements from thermocouples, solar radiation sensors, and wind sensors requiring vector averaging.

In the years since the introduction of the CR5, Campbell Scientific has developed increasingly powerful data loggers, data-acquisition systems, sensors, communication devices, and software. To date, over 400,000 systems have been manufactured, and customers all over the world have come to depend on our equipment's reliability and accuracy.

# Our Customers

As we serve environmental, research, and industrial markets, the flexible and rugged design of Campbell Scientific products allows us to provide complete solutions in a wide range of applications in weather, water, energy, gas flux and turbulence, infrastructure, and soil.

- Agriculture and Soils Research and Instrumentation
- Air Quality and Pollution Instrumentation
- Alpine Automated Weather Instrumentation
- Automated Weather Stations (AWS) and Meteorological Instrumentation
- Aviation Weather
- Environmental Research

- Evapotranspiration and Commercial Irrigation Instrumentation
- Fire Weather Stations
- Lightning Warning Instrumentation
- Marine Grade Weather Stations
- Road Weather Information Systems (RWIS)
- Surface Transportation

## WEATHER

- Flood Warning Systems
- Surface Water Monitoring
- Water Quality

## WATER

- Geothermal Energy
- Hydropower
- Oil and Gas
- Solar Energy
- Utilities and Energy
- Wind Energy

## ENERGY

- Gas Flux and Turbulance

## GAS FLUX AND TURBULANCE

- Bridge Monitoring
- Building Structures
- Construction
- Geotechnical
- Green Buildings and Green Roofs
- Historical Preservation
- HVAC
- Mining
- Oil and Gas
- Pavement and Roads
- Railway Monitoring
- Seismic
- Slope Stability
- Structural Health Monitoring
- Vehicle Testing

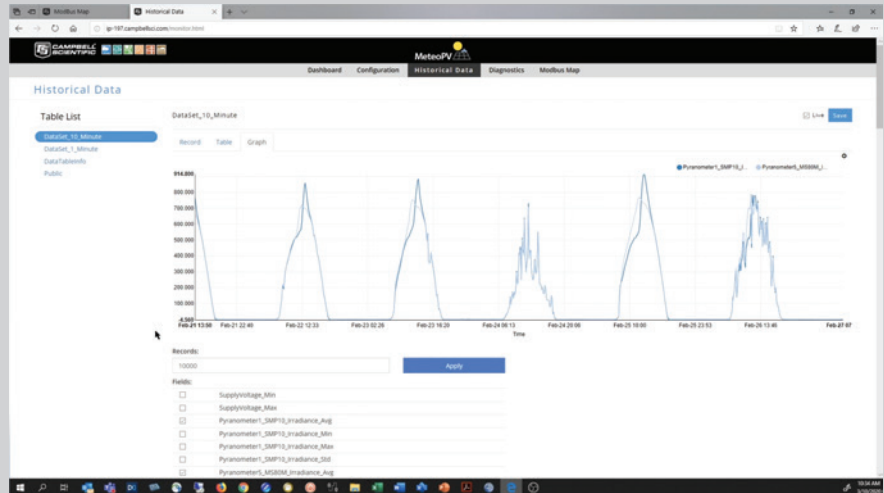
## INFRASTRUCTURE

- Agriculture and Soils Research Instrumentation
- Environmental Research

## SOILS

## The Data

Reliability and accuracy are critical for defensible data, and to drive effective policy and decisions. In addition to gathering raw data, Campbell Scientific also encourages actionable insight by taking large amounts of reliable, accurate data, and applying quality assurance and quality control processes to present indicators that will lead to sound decisions.



## The Equipment

For almost 50 years, Campbell Scientific products have been known globally for flexibility, accuracy, and dependability—even in harsh, remote environments. Traditionally, a Campbell Scientific system has been based around a programmable data logger or data-acquisition system. Although this continues to be the case in many systems, the innovative architecture of systems with IoT (Internet of Things) capabilities are becoming more common.

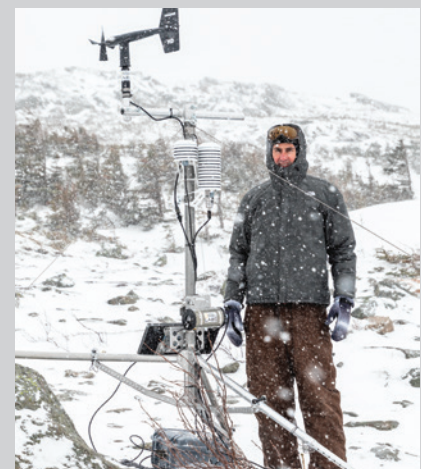


Whether a system stores the recorded data onboard or transmits the measurements to a cloud solution, the flexibility of these systems allows them to communicate with almost any commercially available sensor and with a wide range of different telemetry devices.

## The People

One thing that has never changed at Campbell Scientific is our dedicated and highly skilled employees. Our sales and technical support teams provide consistent and reliable support. These employees have degrees in scientific and engineering disciplines and in-depth knowledge of our products.

The research and development department designs products to meet our customers' unique measurement needs. Our production facility manufactures every Campbell Scientific product to ensure consistent, dependable performance.



# Case Studies

## METEOROLOGICAL NETWORKS—Oklahoma, U.S.



The Oklahoma Mesonet is a statewide environmental monitoring network developed through the cooperative efforts of Oklahoma State University and the University of Oklahoma. The mesonet is a bold, ambitious project to make timely and useful weather information available to the citizens of Oklahoma.

[campbellsci.com/oklahoma-mesonet](http://campbellsci.com/oklahoma-mesonet)

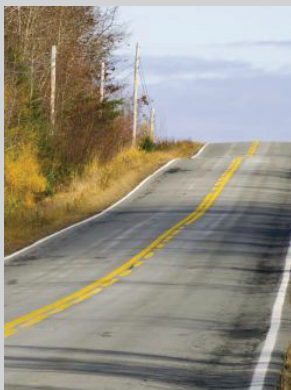
## FLOOD WARNING—Cocoli, Panama



The Panama Canal was using an outdated water-level system until the Panama Canal Authorities (ACP) discovered Campbell Scientific's ALERT2 system. This enhanced system provides accurate water-level forecasts for the Panama Canal to keep ships safe and moving forward for years to come.

[campbellsci.com/panama-canal-flood-warning](http://campbellsci.com/panama-canal-flood-warning)

## RWIS—Ontario, Canada



As an industry-leader in integrated RWIS solutions, Campbell Scientific Canada (CSC) is one of the only companies in North America offering a compact, cost-effective solution designed specifically to densify existing RWIS networks and collect micro-climate data.

[campbellsci.ca/rwis-network-accuracy](http://campbellsci.ca/rwis-network-accuracy)

## AVIATION WEATHER—São Tomé, Central Africa



Campbell Scientific's system integrator, AUDIMOBIL LDA, recently upgraded the airport weather system in the S. Tome International Airport (IATA: TMS, ICAO: FPST), in the São Tomé and Príncipe Archipelago off the western equatorial coast of Central Africa.

[campbellsci.com/central-africa-airport-weather](http://campbellsci.com/central-africa-airport-weather)

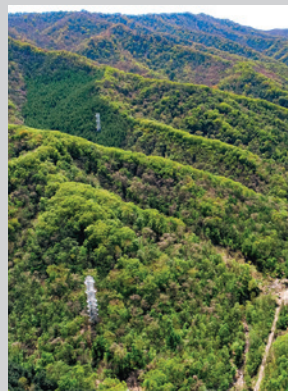
## LIGHTNING WARNING—Various Locations, U.S.



The Professional Golfers' Association (PGA) Tour of America contracted with Schneider Electric to provide hazardous weather forecasts for the Champions, Seniors, and Ladies Professional Golf Association (LPGA) golf tours, and for several other premiere golf events.

[campbellsci.com/us-pga-tour-lightning-warning](http://campbellsci.com/us-pga-tour-lightning-warning)

## GAS FLUX—Qingyuan Forest, China



This case study discusses the integration of CPEC310 and AP200 systems to explore the theories and techniques of measuring CO<sub>2</sub>/H<sub>2</sub>O/trace-gas fluxes over heterogeneous landscapes in the Chinese Academy of Sciences Qingyuan Forest CERN laboratory.

[campbellsci.com/china-flux](http://campbellsci.com/china-flux)

# Case Studies

## **SOLAR ENERGY**—Ontario, Canada



[campbellsci.com/ontario-solar-energy](http://campbellsci.com/ontario-solar-energy)

The government of Ontario has made a commitment to renewable energy and has therefore created the Feed in Tariff (FIT) program under the Green Energy and Green Economy Act (2009) to encourage the development of renewable technology and its implementation in Ontario.

## **SOLAR ENERGY**—Atacama Desert, Chile



[campbellsci.com/chile-solar-panel-soiling](http://campbellsci.com/chile-solar-panel-soiling)

Valhalla, an energy company in Chile, is making resource assessment and solar-panel soiling measurements in advance of construction of the Cielos de Tarapacá Project.

## **BRIDGE MONITORING**—Pennsylvania, U.S.



[campbellsci.com/delaware-river-bridge](http://campbellsci.com/delaware-river-bridge)

Intelligent Infrastructure Systems, a Pennoni company, was contracted to design and install an efficient structural-health monitoring (SHM) system capable of providing information regarding the operational and structural performance of the Burlington-Bristol Bridge.

## **ENVIRONMENTAL RESEARCH**—Louisiana, U.S.



[campbellsci.com/louisiana-sinkhole](http://campbellsci.com/louisiana-sinkhole)

In August 2012, RESPEC was contracted to provide field instrumentation and early-warning monitoring services at a developing sinkhole on the western flank of the Napoleonville salt dome in Louisiana.

## **GEOTECHNICAL**—Kentucky, U.S.



[campbellsci.com/kentucky-dam-repair](http://campbellsci.com/kentucky-dam-repair)

The Wolf Creek Dam near Jamestown, Kentucky, was constructed partially as a regular concrete hydroelectric dam, but mostly as an earth-fill embankment structure. Finished in 1950, within 20 years it developed serious reservoir seepage problems.

## **WATER QUALITY**—Arkansas, U.S.



[campbellsci.com/arkansas-flood-warning](http://campbellsci.com/arkansas-flood-warning)

Hot Springs, Arkansas, is a history-rich city located adjacent to Hot Springs National Park. The city is blessed with mountainous terrain, recreational waterways, and more than 45 hot springs. Hot Springs Creek delivers spring water through the center of town.



# Global Sales & Support Network

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## Australia

*Location:* Garbutt, QLD Australia  
*Phone:* +61 (0) 7 4401 7700  
*Email:* info@campbellsci.com.au  
*Website:* www.campbellsci.com.au

## Brazil

*Location:* São Paulo, SP Brazil  
*Phone:* 55 11 37323399  
*Email:* vendas@campbellsci.com.br  
*Website:* www.campbellsci.com.br

## Canada

*Location:* Edmonton, AB Canada  
*Phone:* 780-454-2505  
*Email:* sales@campbellsci.ca  
*Website:* www.campbellsci.ca

## China

*Location:* Beijing, P. R. China  
*Phone:* +86 10 6561 0080  
*Email:* info@campbellsci.com.cn  
*Website:* www.campbellsci.com.cn

## Costa Rica

*Location:* San Pedro, Costa Rica  
*Phone:* +506 2280-1564  
*Email:* info@campbellsci.cc  
*Website:* www.campbellsci.cc

## France

*Location:* Vincennes, France  
*Phone:* 0033 (0) 1-56-45-15-20  
*Email:* info@campbellsci.fr  
*Website:* www.campbellsci.fr

## Germany

*Location:* Bremen, Germany  
*Phone:* +49 (0) 421 460974-0  
*Email:* info@campbellsci.de  
*Website:* www.campbellsci.de

## India

*Location:* New Delhi, DL India  
*Phone:* +91 11 4564 2212  
*Email:* info@campbellsci.in  
*Website:* www.campbellsci.in

## South Africa

*Location:* Stellenbosch, South Africa  
*Phone:* +27 (21) 8809960  
*Email:* sales@campbellsci.co.za  
*Website:* www.campbellsci.co.za

## Spain

*Location:* Barcelona, Spain  
*Phone:* +34 93 2323938  
*Email:* info@campbellsci.es  
*Website:* www.campbellsci.es

## Thailand

*Location:* Bangkok, Thailand  
*Phone:* 66-2-7193399  
*Email:* info@campbellsci.asia  
*Website:* www.campbellsci.asia

## UK

*Location:* Shepshed, Loughborough, UK  
*Phone:* +44 (0) 1509 601141  
*Email:* sales@campbellsci.co.uk  
*Website:* www.campbellsci.eu

## USA

*Location:* Logan, UT USA  
*Phone:* 435-227-9120  
*Email:* info@campbellsci.com  
*Website:* www.campbellsci.com

**Other Locations:** Sales and support are provided in many other locations through an extensive network of international reps. For the full list, please visit [www.campbellsci.com/contact#dir](http://www.campbellsci.com/contact#dir).

