



Taylor J. Jones

Environmental Field Technician

Mr. Jones joined Sonoma Technology in 2018. His primary focus includes data acquisition, design, engineering, data review, sample collection, maintenance, and calibration for field equipment used for industrial and community monitoring sites. This includes testing state-of-the-art air quality sensors, federal equivalent methods, and standard meteorological instruments. These sensors measure numerous gas and particle-phase pollutants, as well as atmospheric state variables such as temperature,

humidity, and wind. Mr. Jones is the lead technician for Magee Scientific and Aerosol products in the U.S. These instruments measure carbonaceous aerosols. Mr. Jones also is Refinery Safety Certified by the Occupational Safety Councils of America, and holds a Transportation Worker Identification Credential (TWIC).

Mr. Jones works on projects that involve implementation of open-path fenceline air quality monitoring and maintenance of monitoring equipment. He has made key contributions in the design and programming of data acquisition systems for numerous large fenceline monitoring projects. Mr. Jones also plays an important role in the design of the power and mechanical systems for fenceline monitoring sites. These systems are currently in use at numerous facilities and are capable of measuring benzene, toluene, ethylbenzene, xylene (BTEX), hydrofluoric acid (HF), hydrogen sulfide (H₂S), sulfur dioxide (SO₂), black carbon (BC), particulate matter, and numerous other organic chemical compounds. Mr. Jones also plays a key role in the development of standard operating procedures for various instruments, as well as installation and maintenance and conducting training on these instruments both domestically and abroad (Ethiopia and Ghana). Mr. Jones' other project work includes H₂S monitoring at a water treatment plant in Richmond, California; H₂S, SO₂, and particulate matter monitoring in Hawaii; and maintenance for several meteorological sites in northern California. He is also supporting deployment of air quality and meteorological equipment for numerous other projects.

Mr. Jones has a BS in Electrical Engineering from Sonoma State University, where he developed systems for gathering and analyzing environmental data. His senior design project involved planning, designing, and building a data logging system that allows devices mounted on unmanned aerial vehicles to wirelessly communicate with a grounded data hub system. He also developed a MatLab program that allows users to view and analyze carbon dioxide and temperature data from across the United States. He has experience with Arduino, Raspberry Pi, and a variety of programming languages including Matlab, CRBasic, Python, and C/C++.

Education

BS, Electrical Engineering, Sonoma State University

Certifications

- Certified Engineer in Training (EIT)
- Refinery Safety Certified, Occupational Safety Councils of America

For a list of publications, see sonomatech.com/ResPub/TJJpub.pdf