Sonoma Technology, Inc.

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Employment Opportunities

Sonoma Technology, Inc. (STI) conducts research in and provides services for the fields of air quality and meteorology. Our work includes meteorological and air quality measurements; modeling; emissions; data analysis; geographic information systems (GIS); custom instrumentation; training and education; specialized software development; exposure assessment; air quality forecasting; and policy analysis. We also perform public outreach services and operate a nationwide, real-time air quality collection system for the U.S. Environmental Protection Agency. Our recent work includes major studies across the United States, as well as projects in Egypt, China, and Antarctica.

STI is expanding and we need to add the following staff members to our team:

Meteorologists

(Ref MET-OU)

STI is currently seeking meteorologists to work in several business areas:

Weather and Smog Forecasting – You will review weather models (Eta, MOS, etc.), examine current smog levels, apply forecast models, issue smog forecasts, and interact with clients. You will help develop smog forecasting tools and software and provide training workshops in this emerging area of meteorology and air quality as well. Currently, STI's meteorologists are predicting smog for several U.S. cities and providing these forecasts to USA Today and The Weather Channel.

Meteorological Data Analysis – You will acquire, process, and analyze meteorological data to better understand how weather affects air quality. You will also conduct detailed case studies of boundary-layer, synoptic, and mesoscale weather conditions associated with air pollution episodes throughout the United States. Currently, for example, STI's meteorologists are examining how the sea breeze and other meso- and local-scale phenomena influence pollution in Virginia.

Meteorological Instruments – You will deploy, operate, and maintain STI's surface meteorological instruments and its 915-MHz Doppler radar wind profilers. STI deploys these instruments to produce high-resolution meteorological data sets of surface and upper-air conditions in order to resolve features such as low-level jets, boundary layer mixing, and long-range transport of pollutants. Currently, STI is processing data from radar wind profilers to diagnose mixing heights in California.

A bachelor's, master's, or PhD. degree in meteorology, a practical understanding of meteorological processes and phenomena, computer experience (proficiency in Microsoft Excel, Word, and PowerPoint and FORTRAN), excellent oral and written skills, and strong motivation and initiative are required. Two to three years of practical experience is advantageous.

Air Quality Analyst

(Ref AQA-OU)

You will acquire and process air quality data and analyze the trends and relationships in air quality and meteorological parameters, emission sources, atmospheric chemistry, and impact on health and visibility of air pollution in areas throughout the United States. For example, STI collects and analyzes air pollution data from homes of asthmatic children to understand how air pollution impacts children's health and what sources are responsible for that pollution. A degree in one of the physical sciences (such as atmospheric or environmental science, chemistry, physics, meteorology, engineering, or related sciences) or applied mathematics and a strong interest in air pollution and environmental science are required. Desirable qualifications include coursework in air quality/environmental science, good communication and problem-solving skills, and computer skills such as Microsoft Excel or Access expertise.

Data Analyst/Scientist

(Ref DAS-OU)

You will explore and mine large data sets of air quality and meteorological data; diagnose air quality episodes, evaluate boundary layer structure, and investigate pollutant trends; and create air quality forecasting applications.

A degree or equivalent experience in atmospheric or environmental science, statistics, chemistry, physics, or engineering and a strong interest in air pollution issues are required. Experience with relational databases is also required. Understanding of and experience with neural networks, fuzzy logic, and CART are a plus. Excellent communications and problem solving skills, experience with a broad range of data analysis tools including statistical packages, and strong computer skills are essential.

Interns

(Ref INTERN-OU)

STI has several openings for paid internships for work on a variety of projects related to air pollution and meteorology. You will handle air pollution and meteorological data (such as data gathering, processing, and quality control/quality assurance screening), analyze and graph trends and relationships in air quality and meteorology, and interpret the implications relating to health, visibility, and pollution sources.

College-level coursework in the physical sciences (such as atmospheric or environmental science, chemistry, physics, meteorology, engineering, or related sciences) or applied mathematics is required. Experience using computers for programming and/or analyzing data, especially with MS Excel and Access, is also needed. The work schedule is flexible, either full- or part-time.

Project Manager/Scientist

(Ref PM-OU)

As a project manager you will oversee a variety of challenging projects in air quality and meteorology. Your duties will include preparing proposals in response to RFPs, planning and scheduling work, conducting work, tracking deliverables, organizing teams to complete projects, and writing reports.

This position requires three to five years' experience managing meteorological or environmental programs and strong organizational, proposal writing, and communication skills. Prior consulting experience would be valuable. An M.S. or Ph.D. in atmospheric or environmental science, physical science, or engineering and strong scientific capabilities is required. Your staff management skills and experience managing applied meteorological projects, including field measurements and data analysis, are a plus.

Submitting Your Resume

Mail, fax, or e-mail a letter of interest and a resume to Sonoma Technology, Inc., 1360 Redwood Way, Suite C, Petaluma, CA 94954. Fax # 707/665-9800. E-mail Barbara@sonomatech.com. Please include the job title reference (e.g., Ref MET-EML). No calls please.

Sonoma Technology, Inc. is an equal opportunity employer.