

CLASSIFICATION: Air Pollution Specialist	Time Base: Full-Time	SALARY: \$4,204.00 - \$7,899.00	FFD: 05/18/2011 or Until Filled
LOCATION: El Monte, CA		DIVISION: Monitoring and Laboratory Division	
CONTACT: Johanna Garcia		E-MAIL: jgarcia@arb.ca.gov	PHONE: 626-575-6832
MAILING ADDRESS: 9528 Telstar Ave, El Monte, CA 91731			
DUTIES:			
<p>Due to the Governor's Hiring Freeze Order, only internal Air Resources Board candidates will be considered.</p> <p>The Aerosol Analysis and Method Evaluation Section (AAMES) is seeking individuals who are highly motivated and are interested in the measurement and study of aerosols in vehicle emissions and their contributions to air quality.</p> <p>The mission of the AAMES is to timely provide accurate data and to assess methodologies that characterize the physical and chemical properties of aerosols, in particular those components in exhaust aerosols that contribute to adverse public health, climate change, and visibility. The analyses are performed in support of various ARB programs and regulations including the low emission vehicles regulation, the diesel risk reduction program, low carbon fuel standard (AB32), and PM2.5. The AAMES develops, evaluates, and assesses test methods, provides laboratory data quality control and management, consults with stakeholders, and disseminates results at appropriate forums. AAMES also provides laboratory data management support for the branch.</p> <p>Under the direction of the AAMES manager or designated leadperson, the incumbent has the responsibility for preparing sampling media, analysis of samples, reduction of analysis data, and preparation of final reports, including quality control reports for exhaust aerosols. The incumbent may also participate in the development and evaluation of new test methods, such as conducting differential electrical mobility analysis and measurement method calibration. Aerosol samples are currently analyzed using techniques of gravimetry, ion chromatography (IC) for cations and anions, thermo-optical carbon analysis for organic and elemental carbon, inductively coupled plasma mass spectrometry (ICP MS) for elements, and gas chromatography mass spectroscopy (GC MS) for polycyclic aromatic hydrocarbons (PAHs). New test methods for the characterization of motor vehicle aerosol emissions will need to be developed in target components such as XRF, particle size distribution based on a combination of particle counters and differential mobility particle sizers, nitro/oxy-PAHs and polar compounds with GC MS, and advance realtime aerosol measurement methodology such as aerosol mass spectrometry. The individual might be required to travel for up to several weeks per year to perform field studies.</p>			
DESIRABLE QUALIFICATIONS:			
<p>Strong computer (WORD, EXCEL, ACCESS, Powerpoint), organizational, interpersonal, written and verbal communication skills are essential, as is a demonstrated ability to work independently in handling multiple projects with tight deadlines and to respond appropriately to technical problems in the field. Desirable qualification include knowledge and skills in aerosol physics, chemistry, measurement method development and evaluation, familiarity with quality assurance/quality control concepts as they apply to scientific instrumentation and data validation. Experience in integrating laboratory equipment and their data streams with Laboratory Information Management Systems (LIMS), is highly desirable. The most competitive candidate will have an advanced degree in chemistry, chemical engineering, physical science or other related scientific discipline (terminal degree preferred) and/or qualifying experience in the areas listed above. Only the most qualified candidates will be interviewed.</p> <p>Applicants must include documentation verifying their educational background: copies of degree(s) and/or transcripts to be considered a qualified applicant for this classification.</p> <p>Will also consider Air Resources Engineer applicants (\$4608 - \$8379).</p>			