

CLASSIFICATION: Air Resources Engineer 2 positions available	SALARY: \$4,608 - \$8,379	FFD: Until Filled
DIVISION/SECTION: Research Division - Climate Change Mitigation and Emissions Research Section	CONTACT: Shana Groff	PHONE: (916) 323-1511
LOCATION: Sacramento, CA	MAILING ADDRESS: 1001 I Street, P.O. Box 2815 Sacramento, CA 95812	

Due to the Governor's Hiring Freeze Order, only internal Air Resources Board candidates will be considered.

DUTIES:

The Climate Change Mitigation and Emissions Research Section is responsible for the division's emissions research program, and for developing, implementing and administering several regulations to reduce the emissions of high global warming potential greenhouse gases, for example from mobile air conditioners. The emissions research program includes both greenhouse gas and traditional pollutant emissions, and is constantly evolving to address future policy questions as well as to provide information on currently used technologies. Current studies include vehicle emissions testing to understand the physicochemical and toxicological properties of exhaust from new fuels and technologies, such as bio-diesel and gasoline diesel injection, and from advanced aftertreatment devices. The section is also responsible for an agency wide effort to coordinate vehicle testing at ARB's emission testing facilities, data analysis, and to identify emissions research questions important to the agency.

The incumbent will work to accomplish the mission of the Section through many activities. The incumbent is expected to use scientific principles, analytical skills, and effective communication to: 1) Conduct highly-focused technical and scientific evaluations of existing information; critically evaluate research proposals and reports; prepare both non-technical documents and technical research reports. 2) Identify and prioritize sources of emissions and the relevant processes that result in those emissions; participate in and/or initiate novel research in the field of emissions from mobile sources and produce scientific papers of the results; investigate the potential impact of emission reduction strategies on air quality and climate. 3) Communicate and interact with other units within ARB or Cal/EPA about Section activities; promote and maintain productive interactions with other agencies such as U.S. EPA, CEC, as well as international, domestic, and regional stakeholders; consider the published literature, agency interactions, and stakeholder interactions to identify, design, support, and implement cost-effective mitigation strategies to reduce emissions in California.

Qualified Air Pollution Specialists are encouraged to apply.

DESIRABLE QUALIFICATIONS:

The incumbent must enhance the scientific and technical capacity of the Section and complement the expertise of the existing team. The incumbent is expected to bring to the Section significant scientific and technical expertise in areas such as light duty and heavy duty vehicle emission testing including on-board and dynamometer testing, pollutant measurement instrumentation, emission modeling and exposure characterization methodologies, pollution control technologies, climate change science, and should have knowledge of research project management. In addition to technical skills, the candidate also needs to be able to think broadly, understand how emissions research fits into the agency's needs and programs, and guide programs to be relevant and supportive of the mission of the agency.

The most desirable qualifications are an advanced degree in an engineering or scientific discipline, experience in emissions measurements and instrumentation, and a high desire for making original and sustained contributions to the mission of the agency and to the scientific community. Also desirable is experience in emission and air quality modeling. The incumbent should have facility with computer software for manipulation, analysis, and graphical presentation of data using tools such as Excel, Access, VBA, Matlab, SAS, R, etc. Excellent writing and communication skills, ability to multitask, and time management skills are absolutely necessary. A team player with a positive attitude and an honest desire to diligently work for clean air in California will join an exceptional group of dedicated engineers and scientists, who represent the highest caliber of personnel in State civil service.