# Peter Jaramillo, MS, CIH

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### **Education**

Master of Science, Health Science | California State University, Northridge, 1989
Bachelor of Science, Health Science | California State University, Northridge, 1979
Optometry and Public Health | University of California, Berkeley, 1983–1985
Public Administration | USC Environmental Management Institute, 1979

### **Certifications**

Certified Industrial Hygienist, No. 5151 | American Board of Industrial Hygiene 40-Hour HAZWOPER Certification | Occupational Safety and Health Administration Transportation Worker Identification Credential® | Transportation Security Administration

## **Professional Memberships & Affiliations**

American Industrial Hygiene Association
American Society of Safety Engineers, Construction Division
Bay Area Environmental Safety Group
Environmental Safety & Health Association for High Technology
Northern California Industrial Hygiene Association

# Citizenship

**United States** 

### **Professional Overview**

Peter Jaramillo, CIH, is a dynamic, solutions-oriented Certified Industrial Hygienist with over four decades of experience in Occupational, Environmental, and Public Health & Safety. As co-owner and Principal Industrial Hygienist of Delta Bay Consultants, Mr. Jaramillo conducts indoor air quality and other industrial hygiene investigations; performs air and noise monitoring; develops and implements health & safety programs and plans; conducts hazard/risk assessments and ergonomics surveys; assesses work practices, engineering controls, personal protective equipment, and emergency preparedness; evaluates confined space and complex ventilation issues; provides employee training and staff mentoring; acts as a technical resource, subject matter expert, and regulatory liaison; and provides expert witness testimony and other legal support on cases related to occupational health & safety.

Mr. Jaramillo has conducted well over 1,000 industrial hygiene and safety investigations across a wide spectrum of industries—including construction, manufacturing, mining, maritime, environmental, petroleum, insurance, healthcare, pharmaceutical, biotechnology, cannabis, utilities, education, and legal.

# **Professional History**

2017-present	Owner / Principal Industrial Hygienist   Delta Bay Consultants, LLC (Antioch, CA)
1997–2017	Owner / Principal Industrial Hygienist   Risk Control Consulting Services (Pleasant Hill & Antioch, CA)
1999–2000	Industrial Hygiene Supervisor   McLaren-Hart (Alameda, CA)
1995–1997	Director, Industrial Hygiene   CNA Insurance (San Francisco, CA)
1991–1995	Corporate Industrial Hygiene Manager   Transamerica / TIG Insurance Company (Woodland Hills & Concord, CA)
1988–1991	Regional Industrial Hygienist   CNA Insurance Co. (Woodland Hills, CA)
1986–1988	Senior Industrial Hygienist   McDonnell Douglas Aircraft (Torrance, CA)
1985–1986	Health and Safety Engineer   Northrop Aircraft (Hawthorne, CA)
1978–1983	Environmental Health Specialist / Registered Sanitarian   Los Angeles County Department of Public Health (Los Angeles, CA)

# **Areas of Expertise**

Animal Allergens	Indoor Air Quality
Biological Hazards	Laboratory Safety
Bloodborne Pathogens	Lead Compliance
Cannabis	Litigation Support / Expert Witness
Chemical Contaminants	Noise Monitoring
Confined Space	Personal Protective Equipment
Construction Safety	Program & Plan Development
COVID-19	Risk Assessments
Engineering Controls	Staff Development & Supervision
Ergonomics	Underground Storage Tanks
Field Work Oversight	Valley Fever
Hazard Communication	Ventilation
Health & Safety Training	Workers Compensation

#### **Industries Served**

Agriculture High-Tech Mining

Biotechnology Housing Office / Commercial

Building Construction Insurance Oil & Gas

Cannabis Laboratories Pharmaceutical

Corrections Manufacturing Retail

Education Maritime / Shipping Roadway Construction

Energy / Utilities Medical / Healthcare Transportation

Environmental Metalworks Welding

Food Processing Military

## **Program and Training Topics**

Aging Workforce Emergency Response Laser Safety

Asbestos Handling Ergonomics Lead & Asbestos Compliance Bio Hazards Fire Prevention Materials Handling/Storage

Bloodborne Pathogens Hazard Communication OSHA Compliance

Chemical Hazards Heat Stress Personal Protective Equipment

Chemical Hygiene Hearing Conservation Respiratory Protection

Confined Space Safety Injury & Illness Prevention Valley Fever

COVID-19 Laboratory Safety Vision / Eye Safety

# **Professional Development / Continuing Education**

#### Conferences

American Industrial Hygiene Association *Annual Conference* – 1988 to present (various locations & online)

2021 Safety and Cultural Heritage Summit (Washington Conservation Guild, AIHA Potomac Section, Smithsonian Institution Office of Safety, Health and Environmental Management) – October 19 & 20 (online)

Central Oregon Occupational Safety & Health Conference – September 2019 (Bend, OR)

California Industrial Hygiene Council Conference – December 2019 (San Francisco, CA)

California Industrial Hygiene Council Conference – December 2018 (San Diego, CA)

2015 GOSH Conference – March 2015 (Portland, OR)

Occupational and Environmental Medicine Symposium – 2004 (Davis, CA)

National Ergonomics Conference & Expositions – 1999 (Anaheim, CA)

### **OSHA Training**

8-hour HAZWOPER *Annual Refresher Training* – 2008–2022 (various locations & online)

30-hour Outreach Training Program, Construction – 2020 (online)

40-hour HAZWOPER Training – December 2007 (Oakland, CA)

10-hour Construction Training – 2000 (Concord, CA)

- Home Office Ergonomics Post COVID-19: Carpe Diem | UC Berkeley School of Public Health January 2023 (online)
- Health Disparities in Meat Packing | UC Berkeley School of Public Health November 2022 (online)
- Research-to-Practice via Ergonomic Research Methods | UC Berkeley School of Public Health October 2022 (online)
- Fine Particulate Matter Exposure from Secondhand Cannabis Bong Smoking | UC Berkeley School of Public Health October 2022 (online)
- Trends in Environmental Health: Learning From Our Past, Bettering Our Future | UC Berkeley School of Public Health October 2022 (online)
- Past as Prologue: How the History of Occupational Illness and Injury Teaches Us About Where We Are Today | UC Berkeley School of Public Health September 2022 (online)
- Please Stop Interrupting Me! | UC Berkeley School of Public Health September 2022 (online)
- Understanding COVID-19 Among Industrial Livestock Operation Workers: Salivary Biomarkers & Mixed Method Approaches | UC Berkeley School of Public Health September 2022 (online)
- School Bus Ventilation in the Context of COVID-19 | UC Berkeley School of Public Health March 2022 (online)
- Simplification: A Respirable Crystalline Silica Overview | Eurofins Environment Testing America February 2022 (online)
- Firefighter Respiratory and Cardiovascular Health: Climate Change & Smoke Exposure | UC Berkeley School of Public Health February 2022 (online)
- Occupational Exposures in Hair Salons: A Case Study on Hairdressers of Color | UC Berkeley School of Public Health December 2021 (online)
- Filter-based Air Monitoring: Exploring Regulations, Methods and New Innovations | Raeco Rents December 2021 (online)
- Noise Primer For Environmental Health & Safety | Raeco Rents December 2021 (online)
- COVID-19 Wastewater Monitoring: Tracking SARS-CoV-2 Infection Dynamics Through Genome Sequencing | UC Berkeley School of Public Health December 2021 (online)
- Ethics: What's in it for Safety Consultants? | American Society of Safety Professionals November 2021 (online)

- Health Effects of Cell Phone and Cell Tower Radiation: Implications for 5G | UC Berkeley School of Public Health November 2021 (online)
- Importance of a Basic IH Field Kit | Raeco Rents October 2021 (online)
- Urban Heat Management for Physical Activity | University of Texas School of Public Health October 2021 (online)
- Asbestos in Air Analysis When to Pull Out the Big Gun | Eurofins Environment Testing America October 2021 (online)
- Quantifying Occupational Heat Stress Among US Agricultural Workers | UC Berkeley School of Public Health October 2021 (online)
- Naturally Occurring Asbestos Its History and Analytical Methods | Eurofins Environment Testing America October 2021 (online)
- Health Literacy in Practice: Risk Communication | UC Berkeley School of Public Health October 2021 (online)
- The Post-Hurricane Harvey Respiratory Training Program | University of Texas School of Public Health October 2021 (online)
- Promoting Sanitation Worker Health & Safety Through Social Enterprise | UC Berkeley School of Public Health October 2021 (online)
- Asbestos in Human Tissue and the Environment Does Size Matter? | Eurofins Environment Testing America September 2021 (online)
- Kill Clipboards and Excel, There is a Better Way to Safety! | Business and Legal Resources September 2021 (online)
- The Global Landscape of OELS is Changing: How to Prepare Yourself | SESHA September 2021 (online)
- Bulk Asbestos Analysis Method Comparisons and Frequent Questions | Eurofins Environment Testing America September 2021 (online)
- Supporting Surgical Smoke Evacuation Legislation Through a Policy Analysis | UC Berkeley School of Public Health September 2021 (online)
- Permeation Through Disposable Nitrile Gloves: Gun Cleaning Solvents and Gunshot Residue | UC Berkeley School of Public Health August 2021 (online)
- Hazards in the Craft Brewing Industry: Understanding Injuries Through Worker's Compensation Data | UC Berkeley School of Public Health August 2021 (online)
- The Importance of Air Sampling Flowrates and Primary Calibration | Eurofins Environment Testing America August 2021 (online)
- The Relationship of the Field Sampler and the Lab, Part 2 | Eurofins Environment Testing America August 2021 (online)
- Mold and Health Effects | Eurofins Environment Testing America August 2021 (online)
- Legionella and Legionellosis | Eurofins Environment Testing America July 2021 (online)
- Mold Introduction | Eurofins Environment Testing America July 2021 (online)

- USP 797 Environmental Monitoring | Eurofins Environment Testing America June 2021 (online)
- Advantages of Passive Sampling as a Decision-making Tool | Eurofins Environment Testing America June 2021 (online)
- Discovering the Root of Your Backstory: Understanding and Preventing Back Injuries | UC Berkeley School of Public Health June 2021 (online)
- Chemical Exposures and Reproductive Health of Nail Technicians | UC Berkeley School of Public Health June 2021 (online)
- Introduction to Bacteriology | Eurofins Environment Testing America June 2021 (online)
- Libby Amphibole, Erionite, and Other Respirable Elongate Particles | Eurofins Environment Testing America May 2021 (online)
- Respiratory Protection in the COVID-19 Pandemic: Research Findings From the Center For Health-related Aerosol Studies | UC Berkeley School of Public Health May 2021 (online)
- Mold Matters: The Effect of Fungi on Building Materials | Eurofins Environment Testing America April 2021 (online)
- Estimating Indoor Transmission Risks of SARS-CoV-2 | UC Berkeley School of Public Health April 2021 (online)
- Asbestos in Soil Analysis Method Selection and Challenges | Eurofins Environment Testing America April 2021 (online)
- Vapor Intrusion Part 2 | Eurofins Environment Testing America April 2021 (online)
- Overview of Asbestos and Its Management | Eurofins Environment Testing America April 2021 (online)
- Legionella Detection Systems and New Regulations | Eurofins Environment Testing America April 2021 (online)
- ACGIH Webinar Updates to the 2021 TLVs | American Conference of Governmental Industrial Hygienists April 2021 (online)
- Preventing Would Be Rescuer Tragedies How Wireless Gas Detection Can Help | Industrial Scientific April 2021 (online)
- Respirator Development in the Time of COVID-19 | UC Berkeley School of Public Health March 2021 (online)
- Expeditiously Assessing School and Workplace Ventilation for COVID-19 Mitigation | UC Berkeley School of Public Health March 2021 (online)
- Work From Home: WTF Just Happened? | Contour Design February 2021 (online)
- Quality Assurance, Part 1 | Eurofins Environment Testing America February 2021 (online)
- Workplace Vibration: Health Hazards, Measurement Protocol and Controls | UC Berkeley School of Public Health February 2021 (online)

- COVID-19 and the Vaccine Webinar | University of Texas School of Public Health January 2021 (online)
- Simplification: A Respirable Crystalline Silica Overview | Eurofins J3 Resources December 2020 (online)
- Job Loss, Suicide, and Overdose: A Case Study on Michigan Autoworkers | UC Berkeley COEH December 2020 (online)
- Quantitative Approach for Air Testing for SARS-CoV-2 | EMLab P&K December 1 (online)
- Navigating COVID-19 Diagnostic and Employee Health Screenings | Semiconductor Environmental, Safety, and Health Association October 2020 (online)
- Beyond Our Current Ergo Tools: Computer Vision's Impact on Ergonomics | Contour Design October 2020 (online)
- Asbestos | EMLab P&K October 2020 (online)
- Minnesota's Safe Patient Handling Act: Policy, Practice, and Research | UC Berkeley COEH October 2020 (online)
- COVID-19 Air Testing | EMLab P&K October 2020 (online)
- College Workstation Set Up, WFH and Emerging Office Ergonomic Trends | Contour Design September 2020 (online)
- IH Pilot Studies: Current Research in Food Truck Exposure and Customized PPE | UC Berkeley COEH September 2020 (online)
- Risk & Safety Training: Leveraging Microlearning | UC Berkeley COEH September 2020 (online)
- Work Vehicle Safety: Eliminating Hazardous Activities While Safety Improving Productivity | UC Berkeley COEH August 2020 (online)
- Occupational Exposure and Ventilation Assessment in New York City Nail Salons | UC Berkeley COEH August 2020 (online)
- TPH: A Simple Concept? | Environment Testing America July 2020 (online)
- Fatigue, Sleep, and the Consequences of Adverse Work Schedules | UC Berkeley COEH June 2020 (online)
- Considerations in Exoskeleton Human Factors | UC Berkeley COEH June 2020 (online)
- Simplifications: A Respirable Crystalline Silica Overview | EMLab P&K June 2020 (online)
- Exposure Assessment for Epidemiology Research: Use of Routine Industrial Monitoring Data | UC Berkeley COEH June 2020 (online)
- The Importance of Air Sampling Flow Rates and Primary Calibration | EMLab P&K May 2020 (online)
- Remote Ergonomics, Job Coaching, and Stretch and Flex Programs May 2020 (online)
- Mercury Sampling and Analysis May 2020 (online)
- Indoor Air Quality in Net-Zero Energy Schools May 2020 (online)

#### **Short Courses**

Coronavirus (COV) SARS-CoV-2 Testing for Environmental Samples – May 2020 (online)

Ergonomic Tips for Working and Schooling from Home During COVID-19 – May 2020 (online)

Metals Analysis Evolution: Basic Principles to the Latest in Trace Metals (Part 1) – April 2020 (online)

COVID-19 OSHA and CDC Guidance for Essential Water & Wastewater Employees – April 2020 (online)

Updates to the 2020 TLVs® and BEIs® – April 2020 (online)

Lean Ergonomics: It's an Efficiency Issue – April 2020 (online)

Overcoming Challenges with Implementing Back-Assist Exosuits – April 2020 (online)

Part 4 – PFAS: Advanced Discussion of Site Investigation Challenges & Best Practices – April 2020 (online)

Creative Use of Direct Reading Instruments – April 2020 (online)

The Impact of Safe Patient Handling Legislation in California – April 2020 (online)

Protecting Workers in the Service Industry During the Coronavirus Pandemic – March 2020 (online)

The Impact of a Scope Stand on Biomechanical Exposures During Simulated Colonoscopies – March 2020 (online)

How to Mitigate COVID-19 and Human Factor Risks in the Workplace – March 2020 (online)

Enhancing EPA Method TO-15–MS to Address High Matrix Effects in Soil Gas – March 2020 (online)

UL Carbon Management – March 2020 (online)

Respiratory Exposures and Outcomes Among Cannabis Workers – March 2020 (online)

Ergonomics in Dentistry and Medical Offices: Fact or Fiction – February 2020 (online)

Vapor Intrusion, Part 1 – February 2020 (online)

The Future of the EHS Workforce in the High Tech Sector – February 2020 (online)

COEH Builds Bridges: Warehouses, Wild Fires & Workplace Injuries – January 2020 (Davis, CA)

Robotic Risk Assessments – December 2019 (online)

Effective, Interactive Training for Workers – November 2019 (online)

The Global Landscape of OELs is Changing: How to Prepare Yourself – September 2019 (online)

The Relationship of the Field Sampler & the Lab, Part 2 – August 2019 (online)

Legionella and Legionellosis – July 2019 (online)

Overview of Asbestos and Management – May 2019 (online)

Leading Edge SRLs and Fall Clearance – May 2019 (online)

#### **Short Courses**

Metalworking Fumes: Safety Compliance With Filtration Can Help – April 2019 (online)

Preventing Would-Be Rescuer Tragedies: How Wireless Gas Detection Can Help – March 2019 (online)

A Productivity Analysis of Six Popular Ergonomic Mouse Designs | Contour Design – January 2019 (online)

Do Hearing Conservation Programs Really Work? - October 2018 (Oakland, CA)

N95 Day Webinar – September 2018 (online)

Battery Safety and UL Standards – September 2018 (online)

Implementation and Benefits of Sit-Stand Workstations – June 2018 (online)

Green Chemistry and Chemicals Policy – May 2018 (online)

Vapor Intrusion, Part 2 – April 2018 (online)

Mold Matters: The Effects of Fungi on Building Materials – April 2018 (online)

Quick Guide to Drinking Fountain ADA Compliance – April 2018 (online)

Confined Space Rescue: Knowing You're Ready – March 2018 (online)

Strategies for Managing Pesticide Spray Drift – March 2018 (online)

Ladder Safety - Plan, Provide, and Train to Save Lives - March 2018 (online)

Investigating Odor Controls – January 2018 (online)

THP, A Simple Concept? – January 2018 (online)

Humidity Technology Pros and Cons – December 2017 (online)

How to Conduct the ANSI Z358.1 Annual Inspection – November 2017 (online)

A Review of Lead Sampling, Analytical and Data Evaluation Approaches – October 2017 (online)

Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, Management – August 2017 (online)

The PPE Conundrum: When Both Chemical and Flash Hazards Collide – August 2017 (online)

Gas Detection Technology – August 2017 (online)

Non-Ionizing Radiation – January 2017 (online)

Latest Research on Sit-Stand Workstations – January 2017 (online)

Legionella Contamination: Contemporary Techniques for Detection & Remediation – October 2016 (online)

September Headlines in Hygiene Air Sampling – September 2016 (online)

The Analysis Workflow of New EPA Method 325 for Fenceline Monitoring – February 2016 (online)

Sewage Contamination – September 2015 (online)

Air Sampling Solutions for High-Profile Issues, New Options for Noise Data Collection and Analysis and Hearing Conservation – March 2015 (Foster City, CA)

#### **Short Courses**

Allergens and Allergic Disease - March 2015 (online)

Catching Up on Silica – December 2014 (Oakland, CA)

Mold Health Effects - October 2014 (online)

Strategies for Mold Investigation and Sampling – September 2014 (online)

Professional Ethics – June 2014 (Oakland, CA)

Miracle Mineral: How New Models are Transforming Asbestos Risk Management – May 2014 (online)

Fungal Data Interpretation – September 2013 (online)

Preparing for Global Harmonization: Classification & Labeling of Chemicals – March 2013 (Portland, OR)

Natural and Man Made Disasters: The Public Health Response – March 2012 (Oakland, CA)

Introduction to Bacteriology – February 2012 (San Francisco, CA)

Respirator Fit Testing Workshop – October 2011 (San Francisco, CA)

Overview of Respiratory Protection – October 2011 (San Francisco, CA)

Developing Environmental Programs – October 2011 (Oakland, CA)

Ionizing Radiation Instrumentation – May 2011 (Portland, OR)

Hearing Protection and Conservation – March 2011 (San Ramon, CA)

Sleep Apnea After Exposure to Formaldehyde Containing Resin Dusts – November 2010 (online)

Noise Control Engineering – May 2010 (Denver, CO)

Ethical Issues for the Practicing Professional – February 2010 (Oakland, CA)

American Industrial Hygiene Association Media Training Workshop – June 2009 (Toronto, ON)

Bacteria Sampling and Data Interpretation – November 2008 (Fremont, CA)

Risk Assessment Methods for Reproductive/Developmental Health & Safety Hazards – June 2008 (Minneapolis, MN)

Ergonomic Interventions and Research – December 2007 (Oakland, CA)

Nanotechnology, The Science and The Law – June 2007 (Philadelphia, PA)

ACGIH TLVs: Practical Applications in the Workplace – March 2007 (Portland, OR)

Global Harmonized System for Worldwide Hazard Communication – February 2006 (Portland, OR)

Mold Investigation and Sampling – June 2006 (Fremont, CA)

Expert Testimony – March 2005 (San Diego, CA)

Respiratory Protection Program – March 2004 (Berkeley, CA)

Working Safety with Biopharmaceutical Compounds in R&D and Manufacturing – 2003 (Oakland, CA)

#### **Short Courses**

EHS Aspects of High Technology Operations & Regulatory Updates – 2002 (Santa Clara, CA)

Understanding Bioaerosol Behavior – 2002 (Oakland, CA)

Bioterrorism: Early Recognition, Public Health Response & Clinical Management – 2002 (Oakland, CA)

60-Hz Electric and Magnetic Fields Primer – 2002 (San Diego, CA)

Active and Passive Sampling of Gases and Vapors – 2002 (Fremont, CA)

Sampling of Isocyanates, Aerosols, and Particulates – 2002 (Fremont, CA)

Investigation, Management, and Remediation of Mold in Buildings – 2002 (Pleasanton, CA)

Risk Assessment – 2001 (San Diego, CA)

Fundamentals of Biosafety – 2001 (San Diego, CA)

Semiconductor Tool Regulatory Compliance and Safety – 2001 (Santa Clara, CA)

Lead-Based Paint Issues for Certified Industrial Hygienists – 2001 (Richmond, CA)

Workers' Compensation & Risk Management – 2000 (Oakland, CA)

Current Topics in Cal/OSHA Enforcement – 2000 (Oakland, CA)

Principles and Practices of Fenceline and Community Air Monitoring – 2000 (Concord, CA)

Permit Required Confined Spaces – 1999 (Alameda, CA)

Overview of Radiation Safety for Industrial Hygienists – 1999 (Oakland, CA)

Eye Safety – 1998 (Palo Alto, CA)

Laboratory Health & Safety-Implementing the Chemical Hygiene Plan – 1995 (Kansas City, MO)

Ergonomic Job Analysis – 1994 (San Diego, CA)

Occupational Ergonomics, Work Evaluation, and Prevention of Upper Limbs and Back Disorders – 1992 (San Diego, CA)

Introduction to the Measurement of Electromagnetic Fields – 1991 (Oakland, CA)

Hearing Conservation and Noise Control – 1986 (Berkeley, CA)

### **Publications**

Jaramillo, P., 1999. "Oregon OSHA Breaks the Stereotype of Governmental Agency," in *The Synergist*. September.

# **Speaking Engagements**

The Aging Workforce – Challenges Facing the Safety Professional | Contra Costa County Community Awareness & Emergency Response Industrial Hygiene Group – 2008

Hexavalent Chromium | ASSE Construction Division - 2006

Crystalline Silica and SB 712 Mold Disclosure | Contra Costa County Community Awareness & Emergency Response Industrial Hygiene Group – 2003

The Aging Workforce | State Compensation Fund – 2002

Industrial Hygiene Monitoring: What You Can Do As a Safety Professional | Southern California Industrial Safety Society – 1992