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September 2026

Principal Industrial Hygienist

EXECUTIVE SUMMARY

Certified Industrial Hygienist (CIH) and Certified Safety Professional (CSP) with more than a decade of experience evaluating workplace exposures, developing health and safety programs, and supporting operational risk management in aerospace, higher education, healthcare, and public utility environments. Experience includes work at NASA, the University of California, Loma Linda University Health, and Southern California Gas Company, with responsibility for chemical, biological, physical, ergonomic, ventilation, hazardous building material, and indoor environmental quality programs.

Board-certified and state-credentialed in industrial hygiene, safety, asbestos, lead, and indoor environmental consulting. Background includes service as a DOSH (Cal/OSHA) and CDPH-approved Principal Instructor and curriculum developer, with experience authoring and delivering technical standard-of-care training for employees, contractors, consultants, safety professionals, research personnel, healthcare personnel, and emergency response teams. Recipient of formal commendations and performance awards from NASA and the University of California, Riverside.

PROFESSIONAL EXPERIENCE

Southern California Gas Company / Sempra Energy

Senior Industrial Hygienist | Aug 2024 – Present

- Manage industrial hygiene evaluations and exposure-control activities across natural gas distribution, pipeline, construction, fabrication, facility, and emergency-response operations.

- Develop enterprise programs addressing fatigue, respiratory protection, hearing conservation, radio-frequency exposure, Cal/OSHA heat illness prevention, silica exposure, Cal/OSHA wildfire smoke protections, Valley Fever, hazardous building materials, and high-hazard field work.
- Evaluate chemical and physical hazards associated with pipeline work, explosive atmospheres, hydrogen sulfide, odorants, metals, asbestos, lead, noise, non-ionizing radiation, and airborne particulate matter.
- Conduct/oversee personal exposure monitoring, area sampling, noise dosimetry, sound-level mapping, radio-frequency surveys, and real-time air monitoring using calibrated direct-reading instruments and laboratory methods.
- Develop and maintain similar-exposure-group strategies, review exposure trends, investigate threshold shifts, and recommend engineering controls, work practices, Cal/OSHA hearing protection, and medical surveillance.
- Direct health and safety responses for mercury releases, rodent and hantavirus concerns, water intrusion, microbial growth, waterborne pathogens, odors, and other workplace environmental concerns; establish remediation criteria and verify corrective actions.
- Evaluate atmospheric conditions involving fine and coarse particulate matter, organic vapors, combustible gases, oxygen, hydrogen sulfide, and other toxic gases; recommend ventilation, access controls, and Cal/OSHA respiratory protection based on measured conditions.

University of California, Riverside – University and School of Medicine

Industrial Hygiene Program Manager | Nov 2019 – Aug 2024

- Managed industrial hygiene programs across clinical, academic, laboratory, construction, and heavy-facility environments and supervised industrial hygiene staff.
- Established program charters, performance measures, procedures, exposure-assessment priorities, and quality-control requirements for field sampling and laboratory data.
- Advised university leadership and project teams on occupational health requirements for campus operations and capital construction, including continuity of operations and exposure-control planning.
- Responded to state workplace-safety agency inquiries and coordinated technical documentation, corrective actions, and institutional follow-up.
- Developed a substance-specific program covering benzene, hexavalent chromium, formaldehyde, beryllium, methylene chloride, vinyl chloride, arsenic, cadmium,

butadiene, ethylene oxide, and lead; defined monitoring, control, and OSHA medical-surveillance triggers.
- Required NIOSH-recognized sampling methods, documented calibration, complete chain-of-custody records, and field and laboratory blanks to support reliable exposure data.
- Directed campus particulate and surrogate-gas monitoring to compare indoor and outdoor conditions and evaluate possible airborne transmission pathways.
- Developed the institutional water-intrusion and mold-response plan; directed moisture mapping, thermal imaging, targeted biological sampling, drying verification, and concurrent EPA-compliant asbestos and lead evaluations following major flooding events.
- Developed campus programs for asbestos management, Cal/OSHA crystalline silica, lead, and Cal/OSHA respiratory protection, including a web-based respiratory protection process used during the global pandemic.
- Directed certification and performance testing for more than 2,000 ASHRAE-tested laboratory fume hoods, including face-velocity measurements, containment review, and protocols for specialized high-hazard hoods.
- Led industrial hygiene activities for emergency releases, including cryogenic-material events, oxygen monitoring, evacuation boundaries, and re-entry criteria.

Loma Linda University Health

Industrial Hygienist | Mar 2017 – Nov 2019

- Managed industrial hygiene activities for medical centers, dental schools, university research facilities, laboratories, operating rooms, pharmacies, and active construction areas.
- Conducted asbestos and CDPH-compliant lead surveys, bulk sampling, portable X-ray fluorescence screening, contractor oversight, and clearance review during hospital construction and renovation.
- Investigated indoor environmental quality, odors, water intrusion, moisture damage, and microbial growth using moisture meters, thermal imaging, illumination meters, air sampling, surface sampling, and other direct-reading instruments.
- Evaluated USP sterile compounding environments and classified cleanrooms through particle counting, viable microbial air and surface sampling, air-change review, and pressure-cascade verification.
- Conducted personal and area monitoring in operating rooms and laboratories for NIOSH-referenced waste anesthetic gases, formaldehyde, phenols, and hazardous drugs; recommended scavenging, medical-gas, ventilation, and work-practice improvements.

- Developed engineering-control projects for anatomy, pathology, and embalming laboratories, including downdraft tables, grossing stations, local exhaust, and general ventilation changes.
- Participated in hazardous-material emergency response and supported isolation, decontamination, and re-entry decisions.
- Coordinated infection-control risk assessments during construction, water intrusion, and microbial remediation; evaluated containment barriers and used quantitative surface testing to verify cleaning.
- Verified pressure relationships in airborne-infection isolation rooms and evaluated environmental controls used to limit transmission.
- Conducted a multiyear particulate-monitoring program across 40 occupied clinical zones during adjacent campus construction, using gravimetric sampling to evaluate total and respirable dust migration and containment performance.

NASA Armstrong Flight Research Center and Dryden Flight Research Center

Industrial Hygienist (CSS-Dynamac/STGI) | May 2014 – Mar 2017

Industrial Hygienist (Mecx/ISSI) | Sep 2013 – May 2014

- Managed occupational health and exposure-assessment programs supporting flight research, aircraft maintenance, laboratories, shops, construction, and federal facility operations.
- Administered programs for asbestos, lead, ionizing and non-ionizing radiation, radio frequency, cryogenic materials, heat stress, ergonomics, illumination, OSHA hearing conservation, indoor air quality, personal protective equipment, and OSHA respiratory protection.
- Co-developed a center-wide exposure-assessment program and evaluated similar exposure groups for chemical, biological, physical, and ergonomic hazards.
- Prepared the initial comprehensive health and safety report for the Stratospheric Observatory for Infrared Astronomy (SOFIA) program and conducted in-flight personal and area noise monitoring and cryogenic-hazard evaluations.
- Conducted exposure monitoring for hydrazine, lasers, radiation, noise, airborne contaminants, and other specialized aerospace hazards.
- Developed an industrial hygiene equipment calibration standard and maintained controlled procedures for calibration, field documentation, sample custody, dosimetry, and quality-control samples.
- Used photoionization detectors, multigas meters, radio-frequency meters, heat-stress instruments, anemometers, radiation survey meters, sampling pumps, light meters, particle monitors, and noise dosimeters to characterize workplace conditions.

CERTIFICATIONS & LICENSURE

- Certified Industrial Hygienist (CIH) | Board for Global EHS Credentialing (BGC) | Cert. #12599
- Certified Safety Professional (CSP) | Board of Certified Safety Professionals (BCSP) | Cert. #45038
- Council-Certified Indoor Environmental Consultant (CIEC) | ACAC | Cert. #1907008
- Certified Asbestos Consultant (CAC) | California Dept. of Industrial Relations (DOSH) | Cert. #16-5842
- Certified Lead Inspector / Risk Assessor | California Dept. of Public Health (CDPH) | Cert. #LRC-00005021
- Cal/OSHA & CDPH Approved Instructor: Authorized subject matter expert and curriculum author.

INSTRUCTION & CURRICULUM DEVELOPMENT

NATEC International

Senior Instructor & Curriculum Author | Nov 2023 – Present

- Serve as a DOSH (Cal/OSHA) and CDPH-approved Principal Instructor for one of California's largest occupational health and safety training providers.
- Designed and authored the complete 8-Hour Mold Remediation Worker curriculum, establishing the instructional standard-of-care for California contractors regarding IICRC S520 guidelines, containment construction, and microbial sampling.
- Teach and certify asbestos contractors and supervisors, lead supervisors, lead inspectors, lead risk assessors, environmental consultants, and safety professionals.
- Deliver courses covering asbestos work, lead-related construction, lead inspection and risk assessment, mold remediation, containment, clearance sampling, portable X-ray fluorescence instrumentation, biological monitoring, and worker-protection requirements.
- Prepare, revise, and administer course materials, practical exercises, and certification examinations.

Institutional & Corporate Training

Subject Matter Instructor & Curriculum Developer | 2013 – Present

- Developed and delivered training for research universities, healthcare systems, utilities, contractors, emergency response personnel, supervisors, and technical staff.
- Prepared curricula addressing asbestos, lead, mold, respirable crystalline silica, hearing conservation, bloodborne pathogens, hazard communication, cryogenic safety, confined-space entry, fall protection, energy isolation, fatigue management, construction safety, Valley Fever, wildfire smoke, heat stress, and laboratory ventilation.
- Developed instruction for emergency response teams on odor complaints, indoor air quality, water intrusion, instrument operation, calibration, multigas monitoring, organic-vapor detection, and airborne-particle measurement.
- Translated regulatory and technical requirements into course materials, field exercises, competency checks, and operating procedures for personnel with varied technical backgrounds.

EDUCATION

- **Bachelor of Science (B.S.), Occupational Safety & Health (Graduated 2015)**
  California State University San Bernardino (CSUSB) & Columbia Southern University | Graduated Highest Honors (Summa Cum Laude) | Cumulative GPA: 4.0

PROFESSIONAL AWARDS & RECOGNITION

- **NASA Quality Assurance and Audit Review (QAAR) Commendation:** Formally recognized by the federal QAAR Team for exceptional proficiency and accuracy in the Metrology and Calibration of industrial hygiene equipment.
- **NASA Safety Council Certificate of Achievement:** Acknowledged for continued excellence in occupational health and safety support and industrial hygiene management at a federal flight research facility.
- **NASA SOFIA Airborne Observatory Certificate of Recognition:** Awarded for the successful execution of complex hazard assessments and environmental exposure campaigns aboard the Stratospheric Observatory for Infrared Astronomy (SOFIA) aircraft.
- **University of California, Riverside (UCR) Vice Chancellor's Recognition:** Commended by university leadership for exceptional technical direction and programmatic support of the institutional Respiratory Protection Program.
- **Academic Excellence:** Graduated Highest Honors (Summa Cum Laude) with a 4.0 GPA, and recipient of multiple Dean's List awards for scholastic achievement.

PROFESSIONAL MEMBERSHIPS

- American Industrial Hygiene Association (AIHA)
- American Society of Safety Professionals (ASSP)
- Diplomate, Board for Global EHS Credentialing (BGC)
- Certificant, Board of Certified Safety Professionals (BCSP)