





Leading the Way in Complex Occupational and Environmental Exposure Assessment

Transforming Data into Actionable Information

DLH ensures the health and safety of workers across various industries by advancing the field of occupational and military exposure assessment. Our unparalleled expertise in assessing occupational exposures in toxic environments and our proven track record of executing on high-impact projects which leverage cutting-edge methodologies sets us apart in the industry. DLH is turning data into actionable information by integrating complex exposures with predictive modeling and machine learning algorithms to accurately characterize critical exposures.

We offer:

- Innovative Methods: Statistical and machine learning techniques that incorporate layers of data: geospatial, biomarker, genetic, environmental, and occupational to provide a more robust estimate of the totality of exposures.
- **Versatile Applications:** Adaptable methodologies for assessment of diverse environments and populations.
- **Proven Expertise:** Decades of experience in high-impact exposure assessment projects with various health outcomes including neurological disorders, chronic obstructive pulmonary disease (COPD), autoimmune diseases, and cancer.
- **Collaborative Approach:** Strong partnerships with leading health and research institutions.
- **ILER Expertise:** Development and administration of the Department of Defense's Individual Longitudinal Exposure Record (ILER) database, which consolidates diverse military exposure data sources, linking individual Service Members to known exposure incidents.

Key Customers





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Deepwater Horizon Oil Spill Response

After the Deepwater Horizon oil spill, DLH played a pivotal role in the National Institute of Environmental Health Sciences (NIEHS) Gulf Longterm Follow-up Study. Our teams collected and analyzed exposure data from over 32,000 cleanup workers, utilizing Bayesian statistical methods and collaborated with industrial hygienists to create a Job Exposure Matrix (JEM), linking various oil-related exposures to the participants. This enabled us to calculate multiple exposure metrics and explore the relationships between exposure and health outcomes.

Radiation Exposure Studies

Our collaboration with the National Cancer Institute (NCI) Radiation Epidemiology Branch on the Atomic Veterans Radiation Study of Veterans exposed on the Rongerik Atoll highlights our experience in applying advanced statistical methods to comparing model-based radiation exposure estimates with individual records from radiation film badges to accurately characterize key occupational exposures.

Adapting Expertise and Methodology for Military Applications

DLH's methodologies are versatile and adaptable. We have successfully applied our approach to military job history records, as demonstrated in the Phase 1 Carcinogens study, establishing exposure groupings and developing a Job exposure matrix for Air Force personnel-specific exposures. As an example, our team can apply geospatial tools to investigate the influence of air pollution and heat index on Service members at various military sites.

