Background: Southwest Research Institute (SwRI) is an applied-science research facility that serves international and national, private and government, clients. New technologies may present unanticipated health hazards and regulatory requirements to the Institute. The Environmental and Safety Systems (ESS) Department strives to anticipate and inform our research staff during project proposals and development.

Job Description: Conduct literature review on topics listed below. The literature review will include, at a minimum, a review of all current regulations (U.S., Asian, and European), peer reviewed journals, and government and industry publications. Compile and produce a summary of industries and/or processes where these materials are employed or generated; potential/anticipated hazards (physiologic and toxicologic) and controls (engineering, administrative, and PPE) implemented or recommended; assessment/air sample strategies; published or anticipated regulatory requirements (to include occupational exposure limits), and a bibliography.

- Nanotubes (single-walled, multi-walled)
- Nanoparticles
- Composite Fibers
- Metal Additive Manufacturing

Objectives:

a) Perform 80-hrs of research and writing over five months.
b) Complete one, 8-hr visit to SwRI in order to present findings to ESS staff. ESS staff will arrange a visit to various SwRI research facilities.

Milestones:

(a) Submit one paper to ESS every 30 days. This deadline is flexible.
(b) Complete SwRI visit and presentation at end of fifth month.

Deliverables:

(a) Submit to ESS 4 documents that include the information listed in the job description for each topic above.
(b) Present findings to ESS staff through Power Point or other media.
(c) Submit copy of presentation to ESS.

For more information contact:

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