Battery Certification and Integration Branch at Naval Surface Warfare Center, Carderock Division, is seeking candidates with a BS or MS in Fire Protection Engineering for a Test Engineer position. The branch performs testing of lithium-ion batteries and associated systems to characterize risks and hazards to Navy personnel and platforms such as ships, submarines, and other vessels where the batteries are deployed. The abusive testing ultimately leads to battery failures resulting in thermal runaway, fire, or spontaneous disassembly.

Test engineer responsibilities include capturing Heat Release Rate (HRR) data using large scale Oxygen Consumption Calorimetry in accordance with ASTM E2067-08. Data for Total Hydrocarbons, Volatile Organic Compounds, H₂, CO₂, CO, HCN, SO₂, and other gasses is collected using Fourier Transform Infrared Spectroscopy (FTIR), Hydrocarbon Flame Ionization Detectors (HFID), Continuous Emissions Monitoring Systems (CEMS) and other methods.

Familiarity and/or prior experience with Oxygen Consumption Calorimetry and gas analysis (LEL, toxicity measurements, etc.) is given a strong preference but is not required as training will be provided.

This position requires the ability to obtain and maintain a DoD Secret level security clearance, which requires United States citizenship.

For more information or to express interest, please contact Toby Cole, Branch Head, Battery Certification and Integration Branch.
toby.cole@navy.mil