APHL works with countries around the world to build strong and resilient national laboratory systems. We support and coordinate the US national public health laboratory system that serves all 50 states, as well as US territories.

With over 50 years of experience managing public health laboratory programs, we apply our expertise to serve national laboratory systems across the globe. APHL provides technical assistance, trainings and workshops, policy development, strategic planning and more across the capabilities outlined below.

**Biosafety and Biosecurity**
APHL supports countries in improving laboratory biosafety and biosecurity through risk assessments, trainings, mentorships and supporting programs, such as the Biological Safety Cabinets (BSCs) Certification Training Program which focuses on developing participant skills in the maintenance and certification of BSCs.

**Energy**
Access to clean, sustainable and affordable energy plays a crucial role in advancing health. Laboratory access to a reliable source of power is critical to healthcare service delivery and disease control and prevention. APHL supports the installation of various energy solutions—including solar energy systems—at laboratories, clinics and hospitals, and provides training for system maintenance.

**Informatics and Data Modernization**
APHL supports countries in evaluation, design and implementation of laboratory information systems (LIS) for more efficient management of laboratory processes and reporting of laboratory data from public health and clinical laboratories while also addressing the data integration, interoperability, visualization, warehousing and standardizing needs for enabling effective utilization of laboratory data by surveillance and clinical programs.

**Laboratory Accreditation**
APHL assists countries to build their laboratory workforce and move toward accreditation through capacity building in quality management systems (QMS), laboratory leadership, internal and external quality assessment and specific diagnostic techniques related to priority disease testing for the country. APHL uses “train the trainer” programs to build laboratory workforces that can apply QMS toward accreditation and enhance the quality of a country’s laboratories.

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