

## Public Health Laboratory Internship Program: An APHL-CDC Initiative

| Focus Area                        | Description                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemistry                         | Reagent preparation                                                                                                                                                                                             |
| Communication                     | Outreach with non-traditional lab / testing sites (physician office, colleges, prison systems, urgent care clinics, etc.)                                                                                       |
| Cross Cutting                     | Preanalytical tasks including sample preparation, sample collection, collection kit preparation, administrative support, specimen intake, shipping/send outs, data entry, and more                              |
| Cross cutting                     | Assist with literature review for projects in the laboratory                                                                                                                                                    |
| Emergency Preparedness & Response | Assist in the development of a COOP or BT drill or exercise                                                                                                                                                     |
| Data analytics                    | Tasks include data entry, database maintenance, organizing paperwork, Conversion from paper to digital records, LIS upgrade with testing, help manage the introduction of new electronic case management system |
| Environmental                     | Tasks could include assistance in pesticide analysis, assist with drink water testing, and mosquito surveillance                                                                                                |
| Fiscal                            | Assist in development of a budget by examining different supply vendors and examining inventory                                                                                                                 |
| Microbiology                      | Tasks could include assisting in subculturing of stock organisms, mosquito surveillance, media prep, reagent preparation, and validation of new FDA approved assays                                             |
| Molecular                         | Assist in the Aliquoting of primers and probes, validate a new master mix for carbapenemase PCRs, create an Excel workbook to prepare carbapenemase PCR runs                                                    |
| Newborn Screening                 | Assist in method/assay development, help with the maternal screening program, assist with the Follow Up program, create, and deliver training for NICU staff regarding CLSI guidelines for sample submissions   |
| Quality Assurance                 | Assist in incident tracking, validations, verifications, and preventative maintenance; participate as a team member on an internal CAP inspection                                                               |
| Safety                            | Participate as a team member on an internal CAP inspection; assist in conducting risk assessments for laboratory processes and procedures, looking up SDS sheets, and more                                      |

For a full list of project ideas, [please visit our website](#).