

## LINCOLN UNIVERSITY Capability Statement

Institution: **Lincoln University**

DUNS No: **075477331** Cage Code: **1W078** NACIS ID(s): IORG#:0007870 IRB#00009448 FWA#00005306 SIC: **0000**

Federal EIN No: **23-1352655**

Certificates, Registrations, Accreditations: *NSPAA, NCURA; SRAInt*

POC Information: **Ms. Marion Bernard-Amos, Director, Title III & Research and Sponsored Programs**

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### OVERVIEW

Lincoln University of Pennsylvania was founded in 1854 as the nation's first degree-granting Historically Black College and University (HBCU). Originally chartered as Ashmun Institute, it was re-named Lincoln University in 1866 in honor of President Abraham Lincoln. Since the beginning, Lincoln has attracted an interracial and international enrollment from the surrounding community, region, and around the world. Today, our liberal arts and science-based degree programs serve a diverse student body, representing many cultures, countries, and career interests. LU has a student enrollment of **1,819 undergraduate**: 40 percent male; 60 percent female, **230 graduate**: 37 percent male; 63 percent female. **Average freshman retention rate, an indicator of student satisfaction**: about 70 percent. 98 percent of undergraduate students on main campus live in college-owned, -operated, or -affiliated housing; 2 percent live off campus and 20 percent of students have cars on main campus. The Students come from 31 states and 28 countries. The University has 100 full time faculty members which is 16:1 student to faculty ratio. Our faculty has 79 percent who hold a doctoral or highest academic degree in their field and 21 percent hold master's degrees.

### RESEARCH CAPABILITIES

**Biomedical Research**: Cancer research, epigenetic sensing of prostate cancer biomarkers, anti -cancer pro-drugs for the treatment of cancers and Neuroscience

**Chemistry**: Computational modeling, chemical sensor for nerve agents, nanomaterials and polymeric materials for targeting delivery of anti -cancer drug, energy detection and energy efficient devices, chip fabrication, organic semi conducting materials, green organic synthesis

**Mathematics/Computer Science**: Nano-fluid modeling, algorithm development, combinatorics, math modelling, Bioinformatics, Computer animation, Cyber Security and Information security, Image Processing and Image Recognition; Computer Graphics and Visualizations

**Physics/Engineering**: Artificial material or metamaterial characterization, nanomaterial and microwave radiation in cancer treatment, micro-droplet study and pattern formation, optimization surface conditions for super hydrophobicity, anti-icing materials and Photovoltaics

**Forensic Science**. Lincoln University is capable for taking Forensic science in Ballistics, bioterrorism, toxin characterization, polymorphism studies, demographic studies of drug use, hypermapping, forensic chemistry, explosive detection and characterization

**Environmental Science**: Microbial ecology, environmental genomics, microbial water quality, anaerobic microbiology, human microbiome, climate change biology, aquatic toxicology.

**Social Sciences**: Clinical counselling, Bio-Psychosocial health and organizational psychology.

### FACILITIES

**Biotechnology Core Laboratory**- DNA Microarray, global gene expression, cellular/ biological imaging & analysis, Quantitative Gene Express, Microarray Verification, Quality control and Assay Validation, Pathogen Detect, SNP Genotyping, MicroRNA Analysis, Viral Quantification through both Real Time PCR and Thermal Cycle PCR.

**Major & Specialized Instrumentation**- Scanning Electron Microscopy, fluorescence, Infrared, NMR, UV/Vis. High speed centrifugation, Fluorescence Microscopy, Real time PCR, Particle Size Analyzer, Vector Network Analyzer, 3- D Printing, Real time PCR, flow cytometer, Atomic absorption Spectroscopy, GC-Mass Spectroscopy

**Library**: **The Langston Hughes Memorial Library**, which also recently finished a complete renovation, holds more than 160,000 volumes, almost 215,000 microform items, access to more than 28,000 electronic journals, and subscriptions to almost 600 periodicals and 40 databases.

### PAST PERFORMANCE

Private and public funding of myriad projects has also allowed Lincoln University to collaborate on national and international technical assistance programs and to excel in the administration of quality, cost-effective research. This is demonstrated by government grants and contracts from the Pennsylvania State, National Endowment for Humanities (NEH), Department of Education, National Science Foundation (NSF), Pennsylvania Department of Health, National Institutes of Health (NIH), Department of Justice, Department of Defense and Partners of America. Currently Lincoln has several on-going grants mainly from National Science Foundation for the department of Science and Engineering (STEM).