# HBCU CHIPS Network Awarded Proposals

| Proposal Title | Proposal Description | Funding Agency | Funding Amount | Duration (Yrs) | Award Number | Participants | Status |
|---|---|---|---|---|---|---|---|
| The HBCU CHIPS Network: A Path to Preparing, Creating and Increasing Research and Innovation Capacity and an Inclusive Microelectronics Workforce | 3D Heterogeneous Integration - Research and Planning Grant | National Science Foundation (NSF) | $2,000,000 | 2 | 2435570 | **Clark Atlanta University,** Alabama A&M University, Norfolk State University, Delaware State University, North Carolina A&T University, Georgia Institute of Technology, Jackson State University, and QEM Network | **AWARDED** |
| Substrate and Materials Advanced Research Technology (SMART) Packaging Program | Glass Core Substrates Research and EWD. This proposal is being led by Absolics. HBCU members will focus on materials research and EWD. | National Institute of Standards of Technology (NIST) | $100,000,000 | 5 | | **Absolics,** Alabama A&M University, Clark Atlanta University, Norfolk State University, Hampton University, Howard University, North Carolina A&T University, Georgia Institute of Technology, Dillard University, University, & Texas Southern University | **AWARDED** |
| Semiconductor Manufacturing and Advanced Research with Twins USA (SMART USA) | Manufacturing USA institute for Digital Twins | National Institute of Standards of Technology (NIST) | $285,000,000 | 5 | | **Semiconductor Research Corporation,** Hampton University, Howard University, Tennessee State University, Dillard University, Clark Atlanta University, Morehouse College, Florida A&M University, Texas Southern University, Tuskegee University, Morgan State University, North Carolina A&T University and **Georgia Institute of Technology** | **AWARDED** |
| Advancing Semiconductor Education through Expansion and Diversification (ASEED) | Identify solutions and increase nationwide awareness of the challenges most minority-serving institutions face in semiconductor research and education, including access to proper training, maintaining state-of-the-art costly facilities, and assessing community impacts. | National Science Foundation (NSF) | $1,000,000 | 2 | 2436203 2436204 2436205 | **Prairie View A&M University**, Alabama A&M University & Central State University | **AWARDED** |

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| Enabling Partnerships to Increase Innovation Capacity (EPIIC) Program | Increase innovation capacity by growing internal & external partnerships to determine skills needed in STEM WFD | National Science Foundation (NSF) | $394,791 (TU), $370,000 (WSSU), $400,000 (HU) *3 separate proposals | 3 | 2433238 2432940 2433178 | Hampton University, Tuskegee University, & Winston Salem State University | **AWARDED** |
| Partnership for Advancing Research Capacity in Semiconductors at HBCUs" (PARCS-HBCU) | Advance semiconductor research across each institution through 4 major thrusts | National Science Foundation (NSF) | $3,000,000 | 3 | 2430293 2430294 | **Central State University**, Alabama A&M University, Coppin State University, Fayetteville State University, Hampton University, Meharry Medical College and North Carolina A&T State University | **AWARDED** |
| DoD Awards $50M in Research Equipment Grants to HBCUs & MSIs | The Department of Defense announced awards totaling $50.1 million to 98 university researchers at HBCUs and MSIs for the acquisition of **research and scientific equipment.** | Department of Defense (DoD) | NCAT: $798,202 AAMU: $595, 401 JSU: $397,864 DU: $522.654 | N/A | W911NF241282 W911NF2410343 W911NF2410345 W911NF-23-S-0014 | Bowie State University, Clark Atlanta University, Delaware State University, Florida A&M University, Hampton University, Morgan State University, North Carolina A&T State University, Prairie View A&M University, Southern University, Tennessee State University, Alabama A&M University, Jackson State University, Howard University, Virginia State University, Tuskegee University, & Dillard University | **AWARDED** |
| Fabrication of nanocomposite photonic thin film by PLD (MTML) | Photonic nanocomposite films made by pulsed laser deposition | Air Force Office of Scientific Research | $800,000 | 4 | FA9550-23-1-0611 | Dillard University | **AWARDED** |
| Planning: HBCU-UP: OPEN: Planning the Use of Strategic Partnerships to Build Pipelines for CHIPS through Morehouse College | This planning project sponsors activities for Morehouse College to enhance its existing Memorandum of Understanding (MoU) with Georgia Tech to develop a pipeline for African American males in CHIPS-related professions. | National Science Foundation (NSF) | $100,000 | | 2332411 | **Morehouse College** & Georgia Institute of Technology | **AWARDED** |

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| Collaborative Research: Ideas Lab: HBCU Research and Collaboration Exchange | This pilot project, HBCU Research and Collaboration Exchange (HBCU RaCE) focuses on the development and deployment of an expertise directory across six participating HBCUs | National Science Foundation (NSF) | $693,664 | | 2430313 | **Virginia State University,** Alabama A&M University, Fisk University, North Carolina Central University, the University of the Virgin Islands, Virginia State University, and Winston Salem State University | **AWARDED** |
| Collaborative Research: Ideas Lab: Panoramic Institutional Assessments: A Playbook for Advancing Research Capacity | The project aims to develop and pilot innovative tools and approaches to enhance the research capacity of these institutions and of HBCUs more broadly. | National Science Foundation (NSF) | $1,469,150 | | 2430207 | **Delaware State University** and additional HBCUs | **AWARDED** |
| Phase Transition and Ferroelectricity in the Two-Dimensional Quantum Materials and their Heterostructure | The project enables JSU to leverage its expertise in STEM education, scientific research, and advanced technological development to contribute to national defense missions while maintaining potential civilian applications | DoD Army Research Office | $999,916 | 4 | W911NF2510121 | Jackson State University | **AWARDED** |
| Accelerating Biosensing Technologies at Winston-Salem State University and Partner Institutions | To develop and implement a multimodal biosensor platform capable of simultaneously and non-invasively detecting biologically relevant molecules under physiologic conditions in real-time, while providing significant educational opportunities, outreach, and workforce development | National Institutes of Health (NIH), National Institute of Biomedical Imaging and Bioengineering (NIBIB) | $6.7 M (P1: $1.3 M) (P2: $5.4M) | 7 | 1UG3EB036467 | **Winston-Salem State University**, the Joint School of Nanoscience and Nanoengineering, University of Alabama Huntsville, Dillard University | **AWARDED** |

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| Semiconductor Exposure, Exploration, and Development (SEED): Collaborative to Broaden Participation in STEM | The project focuses on how community colleges can increase their presence in STEM research. | National Science Foundation (NSF) | $500,000 | 3 | | **Drake State Community and Technical State,** Trenholm State Community College, & Lawson State Community College | **AWARDED** |