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Maximizing HBCU University Websites to Highlight Contributions to AI-Enabled Semiconductors: Research, Workforce Development, Academic Programs, and Institutional Initiatives

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As the U.S. advances efforts to strengthen its semiconductor and microelectronics workforce, institutional websites have become a primary source of information for students, researchers, industry partners, and federal funders seeking to identify research capacity, workforce initiatives, and collaboration opportunities. These stakeholders, particularly students exploring workforce pathways and funders assessing institutional readiness, public-facing web content serves as the first point of engagement and a critical signal of institutional priorities.

Historically Black Colleges and Universities (HBCUs) play a vital role in diversifying and sustaining the national semiconductor workforce, yet their contributions to AI-enabled semiconductor research and workforce development remain under-documented in broader research literature. Rather than cataloging academic offerings, this study addresses this need by examining the following research question: How are Historically Black Colleges and Universities contributing to AI-enabled semiconductor workforce development through research and institutional initiatives?

Our findings will be the first data-driven mapping of visible HBCU engagement in AI-enabled semiconductor workforce development, which highlights areas of strength and structural gaps in institutional signalling, while underscoring the strategic importance of web visibility. Collectively, this work positions HBCUs as essential contributors to the AI-enabled semiconductor workforce while offering actionable insights for institutions and policymakers seeking to strengthen inclusive workforce ecosystems.

Academic or Professional Status

Undergraduate Student

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