



HBCU Clean Energy Education Prize Resource Partners Contact List

Updated Dec. 1, 2023

The following organizations have expressed interest in partnering with HBCUs competing in the prize. HBCUs are welcome to reach out to these organizations or organizations not listed.

NONPROFITS/EDUCATIONAL INSTITUTIONS

Advancing Sustainability through Powered Infrastructure for Roadway Electrification Engineering Research Center (ASPIRE ERC)/Purdue University

Type: National Science Foundation Engineering Research Center/Higher Education Institution

Contact: Brandon Allen, allen352@purdue.edu

Website: aspire.usu.edu

Resource Information: ASPIRE has hosted summer research programs for both high school and undergraduate students in the pursuit of an electrified transportation system. We have a Research Experience for Undergraduates program that we host each summer for students to be paid and engage with faculty mentors from one of the four U.S. based organizations. We are always looking to expand outreach to students, and we are open to having your students participate in that. We also want to share presentations and activities that we have worked with our students on as it relates to electrified transportation systems. Additionally, we have resources and research projects that we want to collaborate with HBCUs on to help support the mission of the center of developing and equitable and sustainable electrified transportation systems. ASPIRE is looking to develop a Minority-Serving Institution consortium as part of our center to help develop equitable and sustainable electrified transportation systems. We are also open to recruitment opportunities for students and other support mechanisms.

AESP (Association of Energy Services Professionals)

Type: Nonprofit

Contact: Kristi Hewitt, khewitt@aesp.org

Website: www.aesp.org

Resource Information: In the upcoming year, we will offer free online, self-paced courses on demand flexibility. Course 1: Introduction to demand flexibility and the resources that make it work. Course 2: Demand flexibility customer program design. Course 3: Implementing demand flexible load programs in different types of facilities. All of these courses offer Continuing Education Units and Certificates of Completion.

American Society for Engineering Education

Type: Professional society

Contact: Jacqueline El-Sayed, j.elsayed@asee.org

Website: www.asee.org

Resource Information: ASEE can provide an expansive network of academic institutions, faculty and staff. We also can provide communication and dissemination plans. ASEE is a leader in DEI, recognized by awards, and is a vocal advocate for DEI. ASEE is experienced with Capacity Building for Research for MSIs, faculty development, mentoring, thought leadership and an expansive program of conferences. ASEE administers internship and post doc programs as well as mini grants, prizes and more. For more information, please check our website or email j.elsayed@asee.org. ASEE is very experienced with MSIs and with a spectrum of programs because our membership is focused on engineering programs, faculty and staff as well as industry and government agencies that focus on engineering education. Our CEO, Dr. El-Sayed is a professor emerita of mechanical engineering and was formerly a provost at a Primarily Black Institution (PBI) in Detroit, so has lived-experience and a passion for working with HBCUs.

BRITE Energy Innovators

Type: Nonprofit business incubator

Contact: Jing Lyon, jing@brite.org

Website: www.brite.org

Resource information: Cleantech Accelerator Programming, Cleantech Stem Programming, Energy Lab

Center for Energy Workforce Development (CEWD)

Type: Nonprofit

Contact: Missy Henriksen, mhenriksen@eei.org

Website: www.getintoenergy.org and www.cewd.org

Resource Information: CEWD would be happy to provide the new Energy Industry Fundamentals 2.0 curriculum, a 120-course geared toward high school and post-secondary learners. The course is available on an easy-to-use LMS and be offered as a full course or as select modules. CEWD is also able to provide connections with energy companies that are eager to connect with students interested in learning more about clean energy and the careers it offers. CEWD is focused on the development of a skilled, diverse energy workforce to support America's Clean Energy Future. We work with energy employers, educators, and other stakeholders across the country. The National Urban League is a generous supporter of our new EIF curriculum as NUL and CEWD partner to support the diversification of the energy workforce.

Clean Energy Business Innovation Portal (CEBIP)

Type: Nonprofit

Contact: Shruti Sharma, ssharma@cebip.org

Website: www.cebip.org

Resource Information: CEBIP launched Clean Energy Technology Transfer (CETX) Program through DOE EPIC Prize. CETX Cohort 2 applications are now open. CETX is focused on accelerating commercialization of cutting-edge clean energy hardware technologies coming out of research labs and universities by match-making market gaps and high potential solutions. CETX Program provides experiential learning to students with a focus on clean energy hardware technology commercialization. Students gain training in clean energy entrepreneurship and transferable skills to tackle and launch climate tech startups. Detailed information and program expectations found here: <https://bit.ly/cebipCETXoverview/> Additionally, CEBIP partners include Regional I-Corps hub, Stony Brook University and portfolio startups in clean energy which have open internships and full-time positions.

EVHybridNoire

Type: Nonprofit

Contact: Tená V. Baker, Tena@evhybridnoire.com

Website: www.EVHybridNoire.com

Resource information: Student enrichment program support collaborating with nonprofits, government agencies, public health groups, regional & national organizations as well as manufacturers and utilities to expand market share, execute EV focus groups of multi-cultural audiences, engage diverse communities exposing them to emerging careers and economic / workforce development in the sustainable energy/transportation economy. We offer opportunities for driving electric/hybrid/autonomous vehicles as well as highlighting the financial & public health benefits of next-generation zero emission vehicles.

Fly By Nature

Type: Nonprofit

Contact: Ogechi Onyewu, oonyewu@flybynature.org

Website: www.flybynature.org

Resource Information: STEAM Curriculum and Development for High School Students

Greater Washington Region Clean Cities Coalition

Type: Nonprofit

Contact: Antoine Thompson, antoinethompson@gwrccc.org

Website: <https://gwrccc.org/>

Resource Information: The Greater Washington Region Clean Cities Coalition (GWRCCC) is a public- private partnership promoting the use of clean, American transportation fuels for homeland security and improved air quality. Our main priorities include combating climate change, environmental justice, electrification, low to zero carbon fuels, and public outreach, as well as community engagement.

In 2023, GWRCCC created the Future Green Leaders (FGL) Program that focuses on teaching young people the importance of leadership, financial empowerment, environmental stewardship, and green jobs that promote a cleaner, healthier community and planet. Students in this program become well-informed about sustainability and environmental basics.

The Greater Washington Region Clean Cities Coalition (GWRCCC) is public-private partnership that promotes the use of clean, and alternative American transportation fuels for homeland security and improved air quality. This coalition is one of nearly 100 coalitions around the country. DOE created Clean Cities in 1993 to provide informational, technical, and financial resources to EPA-act-regulated fleets and voluntary adopters of alternative fuels and vehicles. Since its inception in 1993, Clean Cities and its stakeholders have displaced more than 2 billion gallons of petroleum.

GRID Alternatives

Type: Clean energy, social/environmental justice nonprofit

Contact: Adewale Ogunbadejo, aogunbadejo@gridalternatives.org

Website: www.gridalternatives.org

Resource Information: We have worked with colleges, universities, K-12, vocational programs and more for over a decade to build and implement solar/clean energy workforce training programs that prepare individuals for clean energy careers. We have a structured hands-on training program that includes core curriculum and interactive mock labs that prepare those we serve to be competitive. We have also done work around electric vehicle supply equipment and energy storage.

HBCU Community Development Action Coalition

Type: National Non-Profit Intermediary

Contact: Henry Golatt or Karen Soares, hgolatt@hbcucoalition.org or ksoares@hbcucoalition.org

Website: <https://www.hbcucoalition.org/>

Resource Information: CDAC was developed by community economic development practitioners physically located and practicing in HBCU academies and environments. As a national intermediary, we have maintained a direct relationship with many of the leaders on HBCU campuses. Likewise, CDAC established a mutual MOU with the Department of Energy (DOE) in 2016/2017. Since that time, we have worked to advance the objectives of the MOU to include HBCUs as strategic partners. In addition, we have worked to advance public-private partnerships with private-sector partners such as Brite Energy Innovators, Smartville, etc. CDAC also has ongoing relationships with membership organizations such as the National Association of State Energy Officials. We believe that this combined relationship capital will be mutually beneficial to HBCUs applying to the Clean Energy Education Prize as well as to the various agencies and partners. CDAC will also seek to leverage its work in the clean energy space alongside other workstreams such as financial literacy, real estate development, research, etc. to drive economic outcomes for HBCUs and their host communities, particularly regarding individual, family, and community wealth-building.

The Lemelson Foundation

Type: Private Family Foundation

Contact: Cindy Cooper, cindyc@lemelson.org

Website: www.lemelson.org, www.engineeringforoneplanet.org

Resource Information: There is shortfall of talent to meet the growing industry demand for engineers equipped with sustainability skills. Engineering for One Planet (EOP) is an initiative to transform engineering education to reflect the growing importance of sustainability in all engineering functions. Catalyzed by The Lemelson Foundation and VentureWell – in collaboration with hundreds of sustainability advocates across sectors, geographies, and lived experiences – EOP seeks to ensure all future engineers across all disciplines learn the fundamental skills and principles of social and environmental sustainability. There are vetted free resources available on the Engineering for One Planet website that show faculty how to integrate climate action, energy transition, sustainability, and related professional skills into courses they already teach or new courses.

Micro Nano Technology Education Center

Type: NSF ATE Center

Contact: Mel Cossette, mel.cossette@edmonds.edu

Website: www.micronanoeducation.org

Resource Information: Curriculum in nanotechnology, materials science, etc. and mentoring for potential grant opportunities.

Power52

Type: Foundation

Contact: Lorie Moore, lorielle@power52.org

Website: www.power52.org

RE-volv Solar Ambassador Program

Type: Solar energy nonprofit collegiate fellowship

Contact: Lauren Friedman, lauren@re-volv.org

Website: www.re-volv.org/solar-ambassador

Resource Information: The RE-volv Solar Ambassador program is an academic year-long fellowship for college and university students who are passionate about solving climate change. As a Solar Ambassador, students have the power to make a positive impact on their campus and in their communities. Ambassadors gain real-world experience by conducting outreach with local nonprofits interested in going solar, shadowing our solar project development process, planning sustainability events on their campus, attending exclusive solar education programming, and connecting with leading solar employers upon

graduation. RE-volv provides exclusive training on solar and clean energy careers through a virtual bootcamp, leadership summit, monthly webinars and coaching with RE-volv staff. The RE-volv Solar Ambassador fellowship program is open to all college and university students located in the United States who are interested in getting real-world professional experience while making an impact. Ambassadors must be able to commit to approximately 120 hours of programming throughout the academic year. Learn more at re-volv.org/solar-ambassador. Since 2014, RE-volv has trained over 400 Ambassadors. Our Ambassadors have helped bring solar to 15 nonprofits in their campus communities and have gone on to work for top companies in solar and sustainability including Sunpower, Sunrun, Open Solar, 3 Degrees, Solstice, Mosaic and more. The program is free for students and their schools.

University of Southern California

Type: Academic institution

Contact: Kyle Konis, kkonis@usc.edu

Website: <https://arch.usc.edu/master-of-building-science>

Resource Information: Possible research collaboration, sharing of educational materials, visiting scholar positions, more ideas TBD.

VentureWell

Type: Not-for-profit entrepreneurial support and technology commercialization organization

Contact: Fernand Gouveia, fgouveia@venturewell.org

Website: www.venturewell.org

Resource Information: VentureWell has trained more than 14,000 individuals across 5,000+ ventures on Lean Startup Methods; supported more than 700 university and college faculty projects seeking to embed innovation and entrepreneurship into their course offerings; and supported more than 5,000 early-stage innovator teams who went on to found 3,200+ businesses on \$4 billion of raised public and private investment. University programming includes train-the-trainer course and program grantee Communities of Practice to incorporate inclusive innovation and sustainable design into educational programs; our Green Launchpad workshop series on integrating sustainable design into curriculum, including design concepts and frameworks for students interested in developing sustainable products; our Engineering for One Planet curriculum, which equips future engineers with the fundamental skills and principles of environmental sustainability; and our various dedicated accelerator programs designed specifically for energy and mobility innovators and their nuanced needs.

PRIVATE COMPANIES

Capture6

Type: Direct Air Capture Company

Contact: Andrew Case, andrew@capture6.org

Website: www.capture6.org

Resource Information: Capture6 is an early-stage start-up working on direct air capture (DAC), freshwater production, and decarbonized chemicals. We would be able to assist with curriculum enhancements as well as potential internship opportunities. We are involved in a number of clean energy accelerator programs and would be happy to facilitate networking and mentorship opportunities as well. Capture6 is a direct air capture start-up based in California and New Zealand leveraging its technology to support climate resilience and industrial decarbonization. The company develops and commercializes highly scalable approaches to remove carbon dioxide from the atmosphere. Capture6 is pioneering an approach that can be deployed today by repurposing existing industrial-scale technologies. Additionally, when coupled with desalination facilities, Capture6 can recover over 50% of freshwater from desalination waste brine for drinking and industrial purposes in the process of removing CO₂. This creates a meaningful synergy between carbon removal and water security. Capture6 believes that historically marginalized groups and frontline communities must be partners in order to foster a just and sustainable energy transition. We look forward to connecting with HBCU partners working in this space and supporting their work to train the next generation of clean energy leaders.

Freedom Forever, LLC

Type: Solar Residential Installer

Contact: Janet Gomez, jgomez@freedomforever.com

Website: www.freedomforever.com

Resource Information: Our company offers exciting full-time opportunities across the country. We currently install in 29 different states out of 44 branches and looking to continue expanding. We hire for a wide range of positions from field to operations management. In addition to our available open positions, we have an incredible training team that can recommend curriculum enhancements geared towards residential solar. We are very excited for the opportunity to partner with HBCUs and continue to diversify our talent, especially within our leadership team. Our goal is to partner with students that are highly motivated and can bring a fresh perspective to help reach our goal of becoming the number 1 solar residential company in the country.

HR&A Advisors

Type: Real Estate, Economic Development, Policy, Advisory firm

Contact: Derek Fleming, dfleming@hraadvisors.com

Website: hraadvisors.com

Resource Information: We are a comprehensive planning and strategy firm that for over 40 years has supported the public sector, philanthropy, development community and many catalytic districts across the country in realizing their revitalization goals. We have a specific, focused practice area at the firm that applies best practices in clean energy, climate sensitive, sustainability centered developments. Our team could support a curriculum / lab in advancing the awareness and involvement of HBCU constituents, at a substantive, robust industry immersion. We have a history of working with a number of Historic Black Colleges, communities and districts.

IBM

Type: Technology and Services Company

Contact: Valinda Kennedy, vscarbro@us.ibm.com

Website: <https://skillsbuild.org/college-students/digital-credentials/fundamentals-of-sustainability-and-technology>

Resource Information: The website is for any student interested in learning or exploring more industry resources around sustainability. IBM provides free resources to students including courses with industry badge credentials, free software, access to cloud environments and more. In addition to the IBM Fundamentals of Sustainability and Technology, we have additional free resources around Artificial Intelligence, Data Science, Cyber Security, Cloud Computing and Quantum Computing at <https://skillsbuild.org/>

Impact Energy

Type: Energy Services Company

Contact: Pamela Fann, pamela.fann@impactenergy.energy

Website: www.impactenergy.energy

Resource Information: We are a Black women owned energy services company supporting project implementation of EV charging stations, heat pumps, and energy audits, and equitable workforce development. We consult and train on DEI, support work within environmental justice communities, and train on operationalizing equity. We also provide an EV Kickstarter program where we educate on starting an EV company. Pamela Fann is a certified diversity professional (CDP) and certified diversity trainer (CDT).

Nextracker

Type: Solar Energy Tech

Contact: Tandalea Mercer, tmerc@nextracker.com; Bruce Ledesma, bledesma@nextracker.com

Website: www.nextracker.com

Resource Information: Internship opportunities in the Bay Area California- home of Silicon Valley or in our Nashville satellite office. Growing of skill-set, clean energy technology, solar knowledge and relationship building.

Nordee Enterprise LLC (d/b/a Transform Power Systems)

Type: Electrical Engineering Organization

Contact: Ledum Nordee, Ledum.Nordee@NordeeLLC.com

Website: www.Nordeellc.com

Resource Information: Our Black-owned, women-owned firm provides professional power systems design and renewable energy integration services. We are also a recipient of the Commonwealth of Massachusetts Energy Advisory contract. In addition to our professional services, we provide clean energy workforce development program and placement services as a contractor for the Massachusetts Clean Energy Center (MassCEC).

OneEnergy Renewables

Type: Solar Energy Project Developer

Contact: Marni Carroll or Tobin Booth, marni@oneenergyrenewables.com or tobin@oneenergyrenewables.com

Website: www.oneenergyrenewables.com

Resource Information: We offer training, shadow days, internships, full-time positions, curriculum design, and site tours for students. We have offices in Seattle, Boulder, Madison and Washington DC and develop projects across the country. We typically host 3-5 summer interns, typically with engineering or business backgrounds. We'd look forward to opportunities to partner!

The Pearson Evaluation and Education Research Group, LLC (d/b/a The PEER Group)

Type: Consulting Company

Contact: Dr. Michael Smith, info@peergroupconsulting.com

Website: www.peergroupconsulting.com

Resource Information: The PEER Group can provide technical assistance in the review of applications for the HBCU Clean Energy Education Prize and others; program and proposal development; project and program evaluation; and training and consulting on DEI in the context of engineering (we are a Registered Continuing Education Program provider for the A/E/C industry). The PEER Group's Founder and Principal Consultant, Dr. Yvette E. Pearson, is an HBCU alumna (Southern University - B.S. Civil Engineering, M.S. Chemistry) and registered Professional Engineer (Environmental) who holds a Ph.D in Engineering and Applied Science (Environmental Engineering focus) and a Graduate Certificate in Educational Research Methodology. She has nearly 30 years of experience in higher education, 12 of which were at her alma mater, and she has successfully created true partnerships - mutually beneficial collaborations - that include HBCUs, PWIs and employers. Through her consulting work and as a faculty member and administrator, Dr. Pearson has led and coached teams to successfully secure and administer over \$40M in federal funding for STEM education projects. A Fellow of the American Society of Civil Engineers and the American Society for Engineering Education, Dr. Pearson has received numerous national and global awards and recognitions for her work. She is an ENVISION Sustainability Professional (ENV SP) and a Commissioner on the Engineering Accreditation Commission of ABET.

Scout Clean Energy

Type: Clean Energy Owner, Operator, and Developer

Contact: Shannon McAlpine, shannon@scoutcleanenergy.com

Website: www.scoutcleanenergy.com

Resource Information: We are a Boulder, CO based clean energy company and currently at 140 employees. We run a spring/summer internship program and hiring for 10+ full-time positions at any given time. We are looking forward to building a network and talent pipeline with HBCUs across the country.

Smart Resource Labs

Type: Data Acquisition Management in Renewables

Contact: Emma Hinkson, emma@smartrl.tech

Website: <https://smartrl.tech/>

Resource Information: Through our technical expertise in data infrastructure review and O&M, we could assist HBCUs in obtaining valid, secure, and useful data to be used in the classroom. We have technical training material developed for workforce development and also have module designs for various uses and displays of data in the classroom. We

partner with educational foundations as well. We also have an opening for a field technician/applications engineer. Smart Resource Labs also has a solar lab and established customer base for students looking to enter the clean energy sector and gain hands-on experience. Please reach out for an in-depth explanation of our work. We are open to collaborating in various ways.