Fueling Innovation with the Department of Energy 8.18.20

Thank you to our panelists!

Conner Proshka, Chief Commercialization Officer & Director, Office of Technology Transitions, U.S. Department of Energy

Paul Sohl, Chief Executive Officer, Florida High Tech Corridor Council

To access DoE Resources contact:

Email OTT@hq.doe.gov
Phone: 202-586-2000

Lab Partnering Service
Office of Technology Transitions

Contact: Aaron Michael, Special Advisor, Department of Energy, Office of Technology Transitions, Office of Chief Commercialization Officer at aaron.michael@hq.doe.gov

About the Florida High Tech Corridor Council

An economic development initiative of three of the country's largest research institutions: University of Central Florida, University of South Florida and University of Florida. Our mission is to grow high tech industry and innovation – and the workforce to support it – in a 23-county region spanning the state. We facilitate collaborations between partners in academia, industry and economic development to create communities with unlimited potential.

synapse
INNOVATION LIVES HERE

About the Department of Energy: Resources & Partnership Opportunities

Energy Storage Grand Challenge-

Energy Storage Grand Challenge Draft Roadmap and a Request for Information (RFI) seeking stakeholder input on the Draft Roadmap. Announced in January 2020 by U.S. Secretary of Energy Dan Brouillette, the Energy Storage Grand Challenge (ESGC) is a comprehensive program to accelerate the development, commercialization, and utilization of next-generation energy storage. The Draft Roadmap outlines a Department-wide strategy to accelerate innovation across a range of storage technologies based on three concepts: Innovate Here, Make Here, Deploy Everywhere.
More information here: Press Release on the Energy Storage Grand Challenge Road Map

Innovation XLab

CCUS- https://netl.doe.gov/carbonx/index.html
Quantum- https://www.bnl.gov/quantumxlab/

Collaborating to Fight COVID-19

CTAP- The COVID-19 Technical Assistance Program (CTAP) was created by OTT in response to the novel coronavirus pandemic. The program seeks to support America's innovation ecosystem by providing funding for short-term, targeted engagements with National Lab researchers to address specific technical challenges. In response to the COVID-19 crisis, OTT supports Labs which provide technical assistance (TA) to external entities seeking to solve emergent technical questions surrounding the pandemic. OTT encourages U.S.-based entities with technical challenges to submit an inquiry. Examples of eligible entities include small businesses, large businesses, universities, non-profit organizations, incubators and accelerators.

National Virtual Bio Lab- A consortium of DOE National laboratories, each with core capabilities relevant to the threats posed by COVID-19. The NVBL is taking advantage of DOE user facilities, including light and neutron sources, nanoscale science centers, sequencing and bio-characterization facilities, and high performance computer facilities, to address key challenges in responding to the COVID-19 threat. Examples include developing innovations in testing capabilities, identifying new targets for medical therapeutics, providing epidemiological and logistical support, and addressing supply chain bottlenecks by harnessing extensive additive manufacturing capabilities. The NVBL collaborates extensively with researchers, both in academia and the private sector. In addition, the DOE user facilities are available to users in all sectors of the research community.

How National Labs are Helping to Fight COVID

Technology Commercialization Fund TCF

OTT's Technology Commercialization Fund (TCF) furthers development of promising National Laboratory-derived energy technologies with the potential for high impact commercialization by engaging committed private sector partners. DOE was directed by the Energy Policy Act of 2005 to establish the TCF and set aside 0.9 percent of the amount made available to the Department for applied energy research, development, demonstration, and commercial application each fiscal year for the TCF. DOE Labs, sites and facilities are the eligible applicants for TCF funding. FY2020 TCF funding exceeded $33 million for 82 projects, with over $36 million in matching funds from private sector partners.

Energy Program for Innovation Clusters EPIC

The Energy Program for Innovation Clusters (EPIC), is a combination prize and funding opportunity to recognize the nation's most innovation incubators. The EPIC Prize asks incubators to develop strategic plans to create or bolster innovation clusters supporting startups and entrepreneurs whose businesses focus on energy-related technologies. The prize emphasizes regional engagement, including with private actors—both for- and non-profit—as well as state and local entities that can provide additional resources. Up to 20 winning teams will be awarded $50,000 each. In addition, a funding opportunity announcement (FOA) for the EPIC program is expected to be released later this summer for approximately $4 million. (EPIC will launch late July 2020.)

CESER: Cybersecurity, Energy Security and Emergency Response

CESER's mission is protecting the reliable flow of energy to Americans today by improving energy infrastructure security and supporting the Department of Energy's (DOE) national security mission. CESER's focus is preparedness and response activities to natural and man-made threats, ensuring a stronger, more prosperous, and secure future for the Nation.

2020 CyberForce Competition - Virtual on November 14th

The Department of Energy You Don't Know: A Few Fun Facts

- The DoE deploys $18 billion in basic science and research support annually, working on everything from nuclear science and safety to renewable energy, space technology and life sciences.
- Partnerships with universities, industry and entrepreneurs are essential to scientific advancement

- The Office of Technology Transfer should be your first stop to finding opportunities to work with the DoE
- DoE does world-leading work on next generation computing like **quantum information and artificial intelligence.**
- The Department of Energy is a part of the **National Space Council**, established in 2017.
- DoE science and technology has been essential to US space exploration since the beginning of the space program.
- The Human Genome Project was powered by DoE computing, life sciences and data management technology.
- 2 of the 3 winners of the 2019 Nobel Prize in Chemistry for their work on lithium-ion batteries were part of the Joint Center for Energy Storage Research (JCESR), an Energy Innovation Hub funded by the Department of Energy. JCESR is a unique partnership made up of national laboratories, universities and industrial firms. Its founding mission was to create game-changing, next-generation energy storage technologies that greatly surpass in performance today's lithium-ion batteries.
- Want to rewatch the session? Click here to view.