

On the Cover

Improving Prosthetics

Using an implanted neural stimulation system, this below-knee amputee can feel sensations of touch and pressure applied to his prosthetic foot as if they originated in his missing limb. With this stimulation system and a specialized insole, lower-limb amputees can actually feel their "foot" touch the floor. This improves balance and walking, and provides a renewed sense of foot-to-floor contact and ankle load, which can prevent falls and enhance the ability to navigate complex environments without conscious attention.

Shaping the Future of Rehabilitative Care for Veterans with VA's Advanced Platform Technology (APT) Center

The APT Center is a National VA Rehabilitation Research & Development Center, established January 2005 in collaboration with Case Western Reserve University, that focuses on serving veterans with sensorimotor dysfunction, cognitive impairment, or limb loss using cutting-edge technologies and rehabilitation techniques, and translating them from proof of concept to viable clinical options. Our research programs focus on: prosthetics and orthotics, health monitoring and maintenance, neural interfaces, and enabling technologies.

www.va.gov

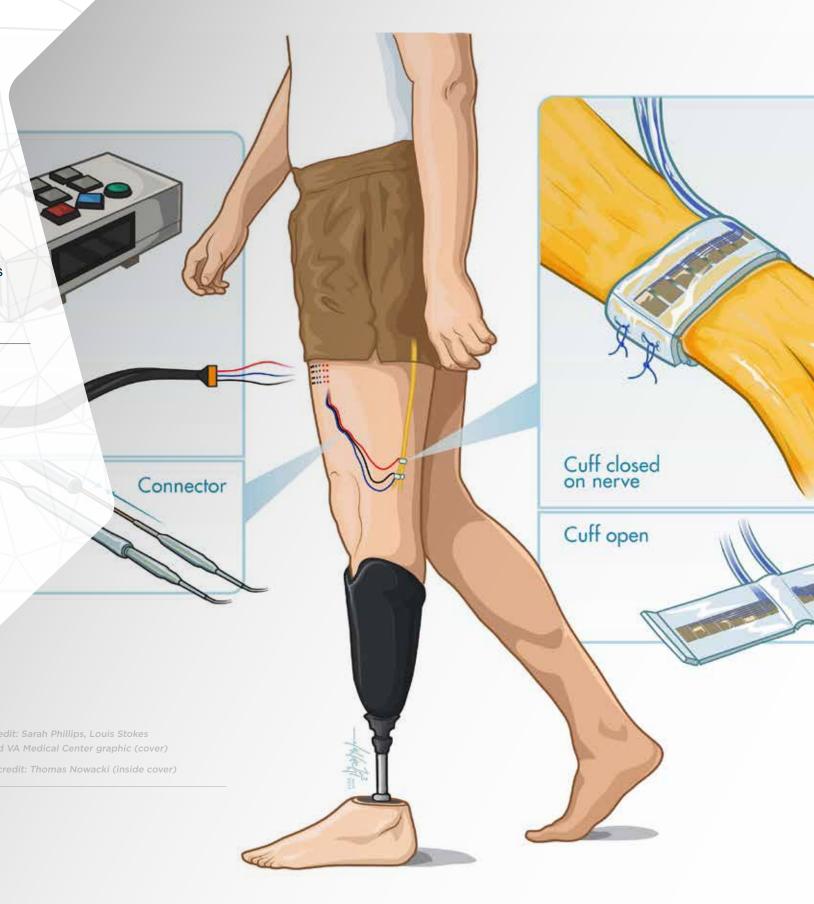
www.aptcenter.research.va.gov













ABOUT THE FLC

The Federal Laboratory Consortium for Technology Transfer (FLC) is a nationwide network of over 300 federal laboratories, agencies, and research centers that fosters commercialization best practice strategies and opportunities for accelerating technologies from out of the lab and into the marketplace. The American taxpayers' investment in our national laboratories' research and development (R&D) efforts has spurred scientific and technological breakthroughs that can return dividends for our economy, such as creating new industries, businesses and jobs, when introduced to the marketplace.

The FLC's mission is to promote, educate, and facilitate federal technology transfer (T2) among its member labs and institutions so they can commercialize technologies and create social and economic impacts with new innovative technologies. Through the various resources, education and training, tools, and services the FLC creates and provides for its members, federal labs are better able to create partnerships, navigate the commercialization process, and achieve market success.

By serving as the touchpoint for T2 communication, education, and open data services tools, the FLC plays a central role in providing the skilled T2 workforce that our country desperately needs. These highly motivated T2 professionals are the driving force behind improving federal labs' ability to effectively partner with the private sector. The FLC strives to support the dedicated individuals who make up the federal laboratory system by continuing to serve as a gateway for industry, government, and academia to access R&D in an effort to stimulate our nation's economic health.













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Regional Coordinator: Jennifer Stewart Naval Surface Warfare Center, Corona Division www.flcfarwest.org

Mid-Continent

Regional Coordinator: Jackie Kerby Moore Sandia National Laboratories www.flcmidcontinent.org

Midwest

Regional Coordinator: Brooke Pyne Naval Surface Warfare Center, Crane Division www.flcmidwest.org 4

Northeast

Regional Coordinator: Valerie Larkin Naval Undersea Warfare Center Division Newport www.flcnortheast.org

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Mid-Atlantic

Regional Coordinator: Robert Griesbach, Ph.D. USDA-Agricultural Research Service www.flcmidatlantic.org



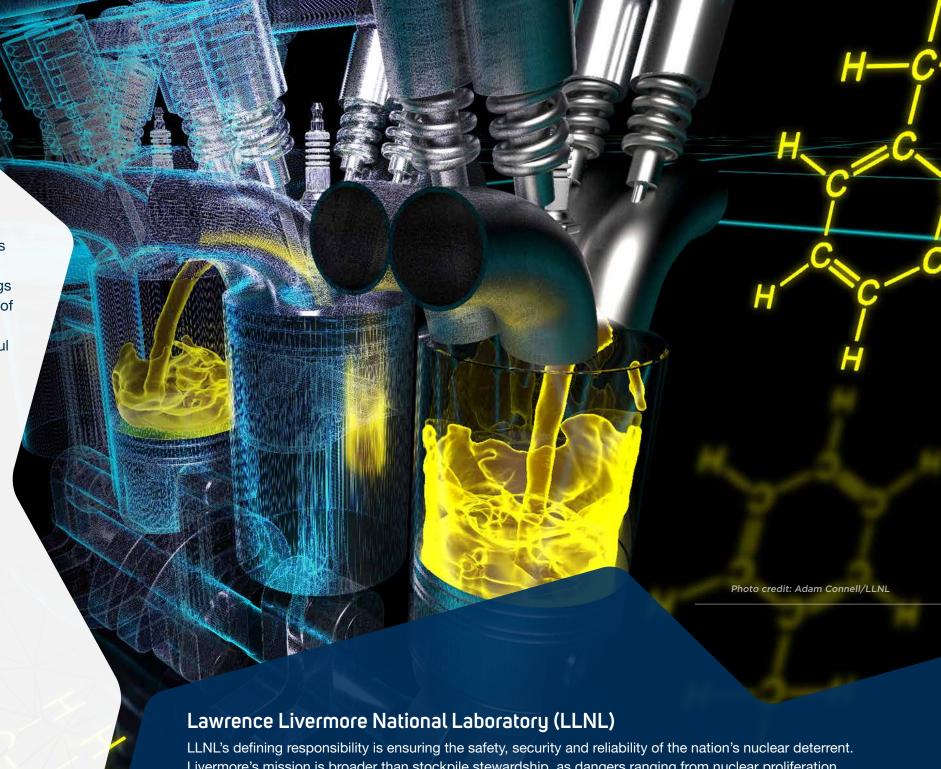
Southeast

Regional Coordinator: Michael Merriken Space and Naval Warfare Systems Center (SPAWAR) Atlantic

www.flcsoutheast.org



The Co-Optimization of Fuels & Engines (Co-Optima) initiative is providing industry with the scientific underpinnings needed to accelerate the development of high-performance fuels and engines to reduce energy consumption and harmful emissions. Co-Optima brings together the U.S. Department of Energy, 9 National Laboratories and 13 universities. Recent fundamental research by Co-Optima members identified representative blendstocks from five chemical families that improved engine performance when blended into gasoline. As part of this multi-lab effort, LLNL's combustion kinetics and numerics teams are developing chemical kinetic models for new high-performance fuels, and fuel models are being used by the broader Co-Optima team for cooptimizing new fuels and advanced internal combustion engines.







LLNL's defining responsibility is ensuring the safety, security and reliability of the nation's nuclear deterrent. Livermore's mission is broader than stockpile stewardship, as dangers ranging from nuclear proliferation and terrorism to energy shortages and climate change threaten national security and global stability. LLNL's science and engineering are being applied to achieve breakthroughs for counterterrorism and nonproliferation, defense and intelligence, energy and environmental security.

www.llnl.gov

DECEMBER 2018





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JANUARY





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FEBRUARY





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QUICK

REFERENCE

Psychophysiological Intelligence Surveillance Reconnaissance (ISR) Using advanced sensor technologies combined with unique and novel algorithms for eye tracking, SSC Pacific scientists are leveraging existing ISR technologies for the measurement 1.265735 and assessment of neurocognitive function in warfighters in the operational environment for performance and the clinical setting for health assessment. Repurposing key laboratory-developed ISR technologies for medical and human performance dual-use applications speeds new capability and innovation to the medical community and creates a pathway for reciprocity. Photo credit: M.A. Yanagi **SPAWAR Systems Center Pacific SPAWAR** Space and Naval Warfare Systems Center Pacific (SSC Pacific) provides the U.S. Navy and military with essential capabilities in the areas of command and control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), cyber, and space. A recognized leader in C4ISR, SSC Pacific is providing the technological and engineering support critical to naval information warfare through basic Systems Center research, prototype development, system development, systems engineering and integration. PACIFIC www.public.navy.mil/spawar/pacific

MARCH





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The Plasmonic Gap Resonator

In this illustration, laser light detects vibrations in a plasmonic gap resonator, a miniature device designed at NIST to precisely measure the motion of nanoparticles that are embedded within it. The device's potential applications include sensing trace amounts of hazardous biological or chemical agents, perfecting the movement of miniature robots, and accurately deploying airbags.

Illustration by Brian Roxworthy/NIST



National Institute of
Standards and Technology
U.S. Department of Commerce

National Institute of Standards and Technology (NIST)

NIST promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards and technology in ways that enhance economic security and improve our quality of life. NIST is a non-regulatory agency of the U.S. Department of Commerce. To learn more about NIST, visit:

www.nist.gov

APRIL





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Graphene from Low-Cost Lignin Measuring one million times less than the width of a human hair, graphene is harder than diamonds and 200 times stronger than steel. Small, strong and flexible, it is the most conductive material on earth and has the potential to charge a cell phone in just five seconds. With its incredible properties, graphene has captured the attention of scientists and industry around the world. Under a Cooperative Research and Development Agreement (CRADA), scientists at the USDA Forest Service's Forest Products Lab **Kraft Lignin** worked with Domtar, Inc.—a sustainable pulp, paper, personal care company—to develop a cost-effective process for the production of **Bio-Graphene** high-value graphene from low-cost lignin. Photo credit: Zhiyong Cai Forest Products Laboratory - Madison, Wisconsin Since 1910, the Forest Products Laboratory (FPL) has used science and technology to conserve and extend our nation's forest resources. Many everyday products and processes have been improved through FPL research, such as building products (structural and composite), housing, paper, bridges, adhesives, packaging, recycling, biofuels, and wood preservatives, to name a few. www.fpl.fs.fed.us

MAY





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Quantum Dot Visualization

A method to produce significant amounts of semiconducting nanoparticles for light-emitting displays, sensors, solar panels and biomedical applications has been demonstrated by researchers at the Department of Energy's Oak Ridge National Laboratory. In this image, the simulated characteristics of various quantum dot compositions are displayed in the laboratory's immersive visualization facility.







Oak Ridge National Laboratory provides exceptional researchers with distinctive equipment and unique facilities to solve some of the nation's most compelling challenges. As the largest U.S. Department of Energy (DOE) open science laboratory, ORNL's mission is to deliver scientific discoveries and technical breakthroughs that will accelerate the development and deployment of solutions in clean energy and global security while creating economic opportunities for the nation.

www.ornl.gov

JULY





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AUGUST



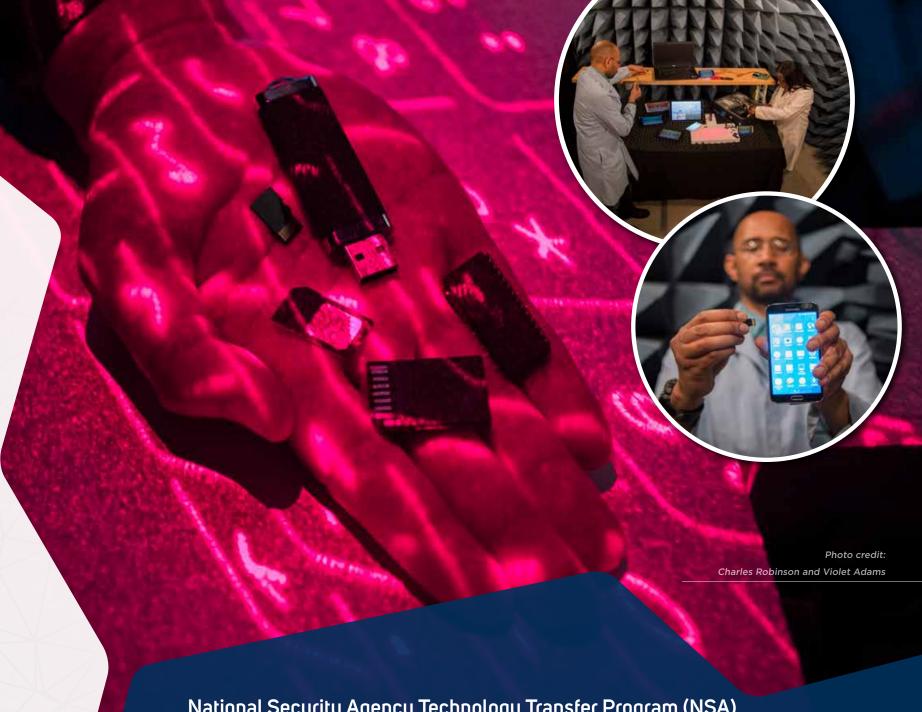


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Autonomous Cuber Security Detective

The growing threats to national and personal cyber security increase the need for novel methods of protecting networks, systems, and devices. An NSA-developed invention takes cyber security to a new level by detecting unauthorized devices and activities as well as adversarial changes, activations, and interactions with devices over time. Potential uses for this technology include anti-hacking monitoring, cell phone usage tracking, and home or office security systems. NSA's Tracking Activity of Removable Electronic Components technology is one of many patented NSA technologies available for license.





National Security Agency Technology Transfer Program (NSA)

NSA's portfolio of patented technologies can be leveraged by companies of any size to build or enhance their businesses. The NSA Technology Transfer Program establishes partnerships that accelerate mission goals, advance science, foster innovation, and promote the growth and commercialization of technology originally created for Agency missions.

www.nsa.gov/techtransfer

SEPTEMBER





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Unmanned Maritime Systems Used for U.S. Coast Guard Arctic Missions

The unmanned maritime system (UMS), which is composed of three pieces when combined together, obtains imagery from the surface of the water. Built by RDC staff and powered by batteries and solar panels, the UMS can either be operated by remote controls or in autonomous mode to execute preprogrammed missions. Testing in the harsh and remote Arctic waters demonstrated:

- Remote-controlled operations of a UMS in open water areas in the Arctic
- · Autonomous operations of a UMS
- Detection of oil in the water using a fluorometer sensor with a UMS.

Pictured below, a "Minion" UMS maneuvers nearby the USCGC HEALY in Arctic waters during the Arctic Technology Evaluation 2017.



OCTOBER





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NOVEMBER





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Cancer Biomarker Research Droplets form on pipettes after filling trays that are part of the effort to identify cancer biomarkers. Once the trays are filled, Pacific Northwest National Laboratory researchers test the samples, checking the levels of proteins and peptides needed to study the difference between cancerous and healthy cells using LC-MS/MS (liquid chromatography-tandem mass spectrometry) analysis. Photo credit: Andrea Starr, Pacific Northwest National Laboratory (PNNL) Drawing on distinguishing capabilities in chemistry, earth sciences and data analytics, Pacific U.S. DEPARTMENT OF Northwest National Laboratory researchers advance scientific discovery and create solutions to the nation's toughest challenges in energy resiliency and national security. PNNL was founded in 1965 **Pacific Northwest** and is operated by Battelle for the U.S. Department of Energy's Office of Science. The national lab employs about 4,500 professionals and has an annual operating budget of nearly \$1 billion. www.pnnl.gov

DECEMBER





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JANUARY 2020





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OUR FEDERAL LABS AT WORK



A Centers for Disease Control (CDC) biologist removes a cell culture with potentially deadly pathogens like Ebola from a 37°C incubator in CDC's biosafety-level 4 (BSL-4) lab.

CDC developed a real-time PCR (polymerase chain reaction) test that detects genetic evidence of Ebola virus infection within just a few hours. The U.S. Food and Drug Administration approved the assay under Emergency Use Authorization. CDC worked with several companies to develop and distribute molecular detection tests, and to field test a rapid Ebola diagnostic for fingerstick or whole blood samples. The test can provide results in as few as 4 minutes.

▼ Multiphysics Object Oriented Simulation Environment (MOOSE)

Modeling and simulation is standard

practice in nearly every branch of science. The

Multiphysics Object Oriented Simulation Environment (MOOSE) has transformed approaches to predictive simulation making it quicker, adaptable and more accessible. MOOSE enables development of state-of-the-art simulation tools in a fraction of the time previously required. The simplicity has bred dozens of MOOSE-based modeling applications spanning nuclear engineering, material science and geology. The growing MOOSE user community includes domestic or foreign laboratories, universities and companies.



NASA Langley has developed a flexible, lightweight and portable thermal protection system. The system is multilayer thermal blankets that are designed to handle external temperatures of up to 2000 degrees Fahrenheit. Field tests clearly demonstrate how these new heat-retardant materials can protect from the extreme conditions. This system creates an environment for protecting equipment, facilities, and people from a high intensity incident heat source, such as a fire. The system can be formed as a sleeping bag, a tent, a blanket, a vertical barrier, a curtain, a flexible rollup doorway, or a wrap.







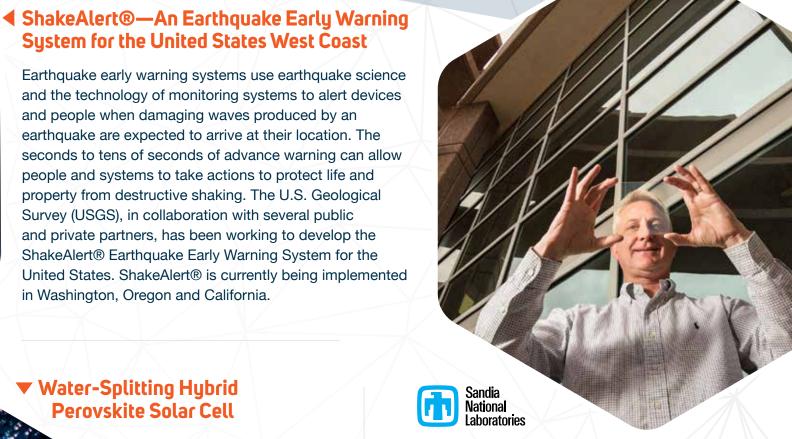
Earthquake Early Warning Basics

- l In an earthquake, a rupturing fault sends out different types of waves. The fast-moving P-wave is first to arrive, but damage is caused by the slower 5-waves and later-arriving surface waves.
- 2 Sensors detect the P-wave and immediately transmit data to an earthquake alert center where the location and size of the quake are determined and updated as more
- 3 A message from the alert center immediately transmitted to your computer or mobile phone, which calculates the expected intensity and arrival time of shaking at you

- - Earthquake early warning systems use earthquake science and the technology of monitoring systems to alert devices
 - and people when damaging waves produced by an earthquake are expected to arrive at their location. The seconds to tens of seconds of advance warning can allow people and systems to take actions to protect life and property from destructive shaking. The U.S. Geological Survey (USGS), in collaboration with several public

System for the United States West Coast

and private partners, has been working to develop the ShakeAlert® Earthquake Early Warning System for the United States. ShakeAlert® is currently being implemented in Washington, Oregon and California.





National Renewable Energy Laboratory (NREL) researchers have developed a hybrid perovskite solar cell integrated with an electrolyzer, where the high voltage generated by these emerging, scalable photovoltaics is applied to water electrolysis to make hydrogen, a storable solar fuel. The small bubbles are the hydrogen being produced. This hybrid solar cell can convert sunlight directly into hydrogen, which promises

to be a key method of storing and moving energy in the future.



IR Dynamics/Thermochromic Materials 🔺

Sandia National Laboratories' original goal was to develop a self-resetting circuit breaker using vanadium dioxide. But through the creativity and partnership of Sandia scientist Paul Clem and New Mexico company IR Dynamics, this technology has been transferred to the private sector, taking advantage of the material's unique tunable optical properties for energy conservation. After three years of development, a new smart window coating and smart window film are poised to enter the marketplace, reducing energy needs for consumers across the U.S. This team received a national Federal Laboratory Consortium Excellence in Technology Transfer Award in 2018.

THE STEPS FOR LAB-TO-MARKET SUCCESS

Each year, billions of taxpayer dollars go into funding research and development (R&D) at federal laboratories, where innovative technologies, methods and ideas are created to fulfill public and private needs and have the power to boost our economy.

Before those innovations can make it out of the lab and into the marketplace, interested industry parties and lab professionals must go through a process called technology transfer (T2) the means by which knowledge, facilities, or capabilities developed under federal R&D funding are utilized or accessed through collaborative partnerships, licensing, agreements, etc., between businesses and federal labs.

MEET YOUR INNOVATION GOALS BY FOLLOWING OUR T2 SUCCESS TRACK!

STEP 1: IDENTIFY YOUR R&D NEEDS

Do you have an idea, invention, or product you'd like to further develop? Our federal laboratories have a wealth of resources and expertise that innovators can access to support various R&D or business needs. Visit federallabs.org to get started!

STEP 2: SEARCH LABORATORY RESOURCES & TECHNOLOGIES

Locate thousands of federal lab resources and techs by searching FLC Business – a unique database that provides innovators the ability to easily find and access lab information, technologies, facilities, equipment, funding and programs. Start your search at FLCBusiness.org!

> **CONNECT ENGAGE**

SEARCH







STEP 3: FIND A SUITABLE T2 PROCESS

After you've found the lab resources you're looking to access or utilize, check out the FLC's Learning Center and T2 Toolkit to learn the ins and outs of the T2 process, how to license a technology, or the best ways to get started working with a federal lab!









T2 Mechanisms Database and Playbook

STEP 4: ASSESS THE NEXT STEPS FOR INNOVATION

Visit the T2 Mechanisms Database to get familiar with the various types of T2 agreements federal labs have available to meet your R&D needs. Then, assess suitable sample agreements to determine what information you'll need to disclose before reaching out to a laboratory representative and moving forward in the T2 process.

4

5

STEP 5: CONTACT A LABORATORY REPRESENTATIVE

Now that you've determined your ideal commercialization path, it's time to reach out to the lab. The laboratory representative will help you determine the best route for accessing the lab, facility, equipment or expertise you wish to utilize. Lab rep info is kept current on every lab profile in FLC Business.



NEED HELP CONNECTING? Contact the Tech Locator! locator@federallabs.org

STEP 6: NEGOTIATE AN AGREEMENT PATH

It's time to initiate, negotiate, and complete an agreement between you and a federal laboratory. Given the mechanism path agreed upon, this stage in the process can take some time to complete so both the laboratory and you (the private party) can achieve what they hoped to gain from the initiated agreement. The agreement will take into account all of the complex factors both parties need to consider during negotiations, such as:



THE DEVELOPMENTAL STAGE



ADDITIONAL PARTNERS



RISK VS. POTENTIAL



STEP 7: COMMERCIALIZE!

You've reached the end of the transfer process, and it's now time to commercialize your innovation! You're now on the path to access technology and facilities never before utilized. The lab's T2 office will follow up to ensure quality control, resolve any issues that may arise, and introduce potential third-party partners for sublicensing or joint development, among other administrative procedures.

END OF T2 SUCCESS TRACK



December 2018



January



February



March







April





June

October





August

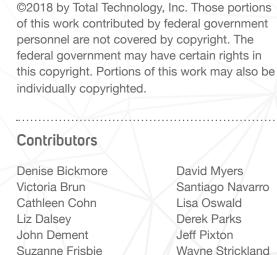


September

December



January 2020



Janeya Griffin Alexis Henderson

Sara Langdon

Jessica Meisel

Sara Langdon.

federallabs.org

FLC

Federal Laboratory Consortium

for Technology Transfer

Prepared by the FLC Management Support Office in conjunction with FLC Communications Chair

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July



November