

INL's Technical Assistance and Rapid Technology Deployment Programs

Leveraging INL's Expertise and Intellectual Property

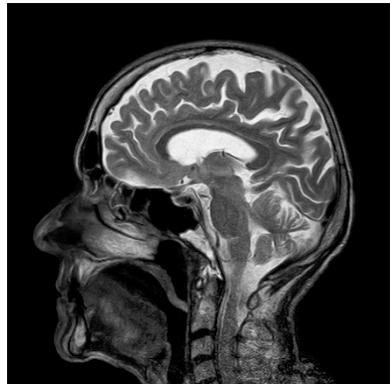
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www.inl.gov



Innovation and Commercialization are America's Strengths





GPS (DoD, Navy)

Fingerprint Recognition (NSF)



Siri (DARPA)

Li Batteries (DOE), DRM Cache (DARPA), LCD (NIH, NSF, DoD), Li Batteries (DOE), DRM, HTTP/HTML (CERN)...



Cellular Communication (Military)



Touchscreen (DOE, CIA/NSF, DOD)



Internet (DARPA)

INL's Assets are Available to You and Your Business

Physical Assets



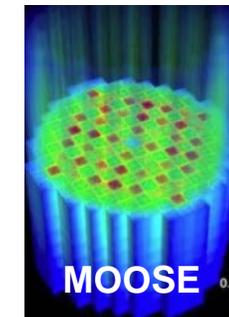
1000's of Cutting Edge Instruments and Facilities

Human Assets (Know-How)



4000+ Scientist, Engineers and Employees

Intellectual Assets



400+ New Ideas and Unique Software

INL's Rapid Technology Deployment Program

- Allows any U.S. company to be able to obtain a term-limited, nonnegotiable, royalty-free, nonexclusive license under any available INL-owned United States patent that is not otherwise subject to a contractual obligation.
 - Term: Now until Dec. 31, 2020
 - Royalties: Zero
 - Negotiations: Zero
 - Rights: Nonexclusive

- Go to INL.gov → Partner with INL → Licensing and Technology Transfer
 - <https://inl.gov/inl-initiatives/technology-deployment/>
 - Browse Available Intellectual Property
 - Preview the License Agreement



Step 1: Find the Right Technology

<https://inltechnology.inl.gov/#>

 INL Technology Available for Licensing

<https://www.labpartnering.org/>

Filter

Search Term

- Accelerator Science and Technology
- Advanced Computer Science, Visualization, and Data
- Applied Materials Science & Engineering
- Applied Mathematics
- Biological and Bioprocess Engineering
- Biological Systems Science
- Chemical and Molecular Science
- Chemical Engineering
- Computational Science
- Condensed Matter Physics and Material Science
- Cyber and Information Sciences
- Decision Science and Analysis
- Earth Systems Science and Engineering
- Environmental Subsurface Science
- Large-Scale User Facilities/Advanced Instrumentation
- Mechanical Design and Engineering
- Nuclear and Radio Chemistry
- Nuclear Engineering

Opportunity by Technology

Electrochemical Recycling Electronic Constituents of Value (E-RECOV) A process for recovering metals from electronic waste

BEA has developed methods and systems to recover metals from electronic waste us...

Robot - Intelligence Kernel

The vehicular guidance system includes a user interface to allow data input so a...

Separating Isotopes from a sample of fission products

Background:

Fission product isolations from uranium samples are routinely pe...

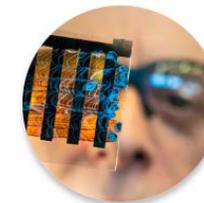
Switchable Polarity Solvent Forward Osmosis

Researchers at INL have developed methods and systems for implementing FO using ...

Opportunity by Patent

1. A Hardfacing Material
2. A Method For Protecting A Surface
3. A Method Of Forming A Hardened Surface On A Substrate
4. A Three-dimensional Architected Anode, A Direct Carbon Fuel Cell Including The Three-dimensional Architected Anode, And Related Methods
5. Acoustic Measurement Infrastructure Method And System For Process Monitoring, Diagnostics, And Prognostics
6. Apparatus For Determining A Thermal Conductivity And A Thermal Diffusivity Of A Material, And Related Methods
7. Apparatus For Rendering At Least A Portion Of A Device Inoperable And Related Methods
8. Annaratases For Large Area Radiation Detection And Related Method

**LAB
PARTNERING
SERVICE**



Explore technologies

Locate technologies developed with DOE funding and available for licensing. When you find a technology you are interested in, contact the lab directly.

[Search technologies and patents](#)

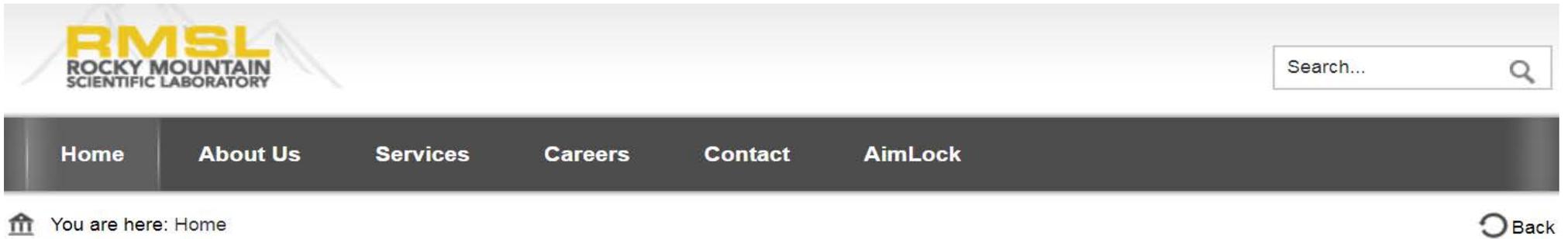


Discover a Lab

Each national laboratory has unique technical expertise and user facilities. Learn about each lab and contact the technology transfer point of contact to learn more.

[Profiles for over 20 locations](#)

Example:



Fast, flexible, and relevant custom solutions for your scientific needs, we are a quick-reaction task-force dedicated to achieving the goals of your mission.

Integrity. Quality. Agility. Grit.

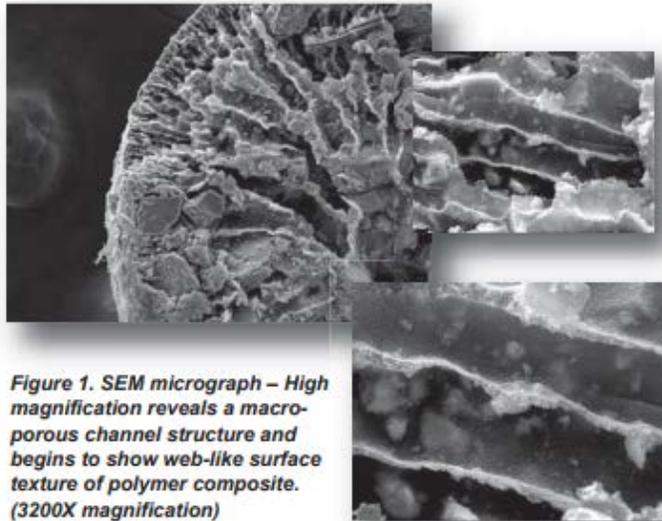


Figure 1. SEM micrograph – High magnification reveals a macro-porous channel structure and begins to show web-like surface texture of polymer composite. (3200X magnification)

N-CAS is more affordable; costing approximately ten cents per thousand gallons of water treated, about 1/5th of other methods. N-CAS also is compatible with packed-bed treatment systems and durable enough to withstand repeated 50 ug/L recharging without appreciable loss of capacity (reducing operational costs).

Step 2: License the Technology

- Contact Technology Deployment
- Provide Basic Information to INL (Form)
- Perform Due Diligence on the Technology
- Negotiate License Terms
- Sign Agreement

A blue curved arrow points from the text "Negotiate License Terms" to the text "Rapid TD Program".

Rapid TD Program

Step 3: Find Funding to Commercialize the Technology

Private Funding

Small Business Innovative Research (SBIR/STTR)

Visit <https://www.sbir.gov/>

Find topic that matches your expertise

Search for technology

Obtain license option agreement
(TT SBIRs are bundled with option)

Technology Commercialization Fund

Visit https://proposalsott.inl.gov/Home/TCF_resources.aspx

Provides matching funds to transfer technology



The screenshot shows the SBIR/STTR website interface. At the top, there is a navigation bar with links for HOME LINKS, ABOUT, FUNDING, AWARDS, NEWS, TUTORIALS, and RESOURCES. A search bar is located in the top right corner. The main content area features a large blue arrow pointing right with the text "FIND FUNDING". Below this, there are three columns of content: "LEARN ABOUT" with a list of items (Overview, Policy Directive, Authorization Act, Intellectual Property), "I'M A(AN)..." with a list of items (Applicant, Awardee), and "I WANT TO..." with a list of items (START A SMALL BUSINESS, REGISTER MY COMPANY, UPDATE MY COMPANY PROFILE/COMMERCIALIZATION). The website is powered by SBA.

\$2+ Billion in grants and contracts
up to \$1,150,000 to commercialize

INL's Technical Assistance Program

Key Features:

- For small business and state and local governments.
- No fees and a simple agreement.
- For organizations with problems too complex or technical to solve on their own.

Requirements:

- Assistance cannot substantially compete with services available from the private sector.
- Assistance must fall within INL areas of expertise.
- Assistance must not interfere with ongoing INL programs.
- No more than 40 hours of assistance are allowed per request.

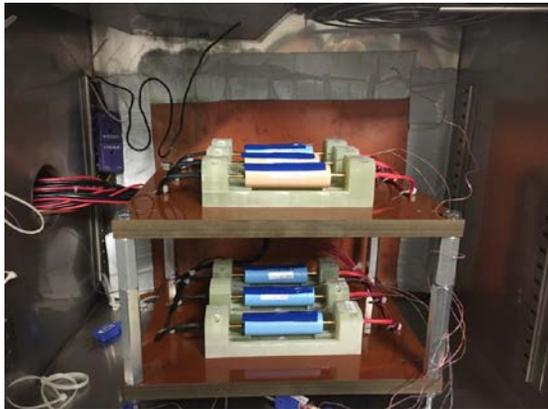
[Request for Technical Assistance form.](#)

COVID-19 Technical Assistance Program (CTAP)

DOE has made funds available to specifically provide technical assistance for a COVID-19 response.

Technical Assistance Program – Examples

The Divinia Water company, an Idaho Falls based small business received technical assistance in constructing a glass resonant chamber used in Divinia's patented water distillation process.



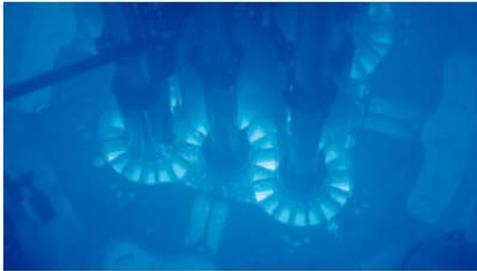
Inergy Solar received technical assistance from INL in its early stages of growth. INL evaluated battery cells, enabling Inergy Solar to make key decisions on building a li-ion battery factory in the Pocatello area.

Aberdeen Green Gold received technical assistance from INL to help develop a new type of protein product from Alfalfa. With Green Gold providing the alfalfa leaves, INL's task was to demonstrated it could produce 5 pounds of protein product.



Discovering INL Capabilities

INL PROGRAMS



ADVANCING NUCLEAR ENERGY

As the nation's premier nuclear science and technology lab, INL leads research, development and demonstration projects to help the nation maintain and expand its use of nuclear energy.

[READ MORE](#)



SECURING & MODERNIZING CRITICAL INFRASTRUCTURE

INL's isolated site, test bed infrastructure, and applied-science focus make it a major center for national security technology development and demonstration.

[READ MORE](#)



ENABLING CLEAN ENERGY DEPLOYMENT

INL improves U.S. energy security and industrial competitiveness by ensuring the availability of clean energy and developing improved technologies to protect the environment.

[READ MORE](#)

Step 1: Find capabilities

Browse www.inl.gov

Call a Commercialization Manager

<https://energy.gov/gc/laboratory-partnering>

Step 2: Due Diligence

Validate the capability will meet your needs

Read information on capability:

<https://factsheets.inl.gov/>

Arrange discussion with technical experts

Step 3: Formalize Relationship

Validate parties want to work together

Develop a scope of work

Develop agreement through contracts management



iINL

Idaho National Laboratory