

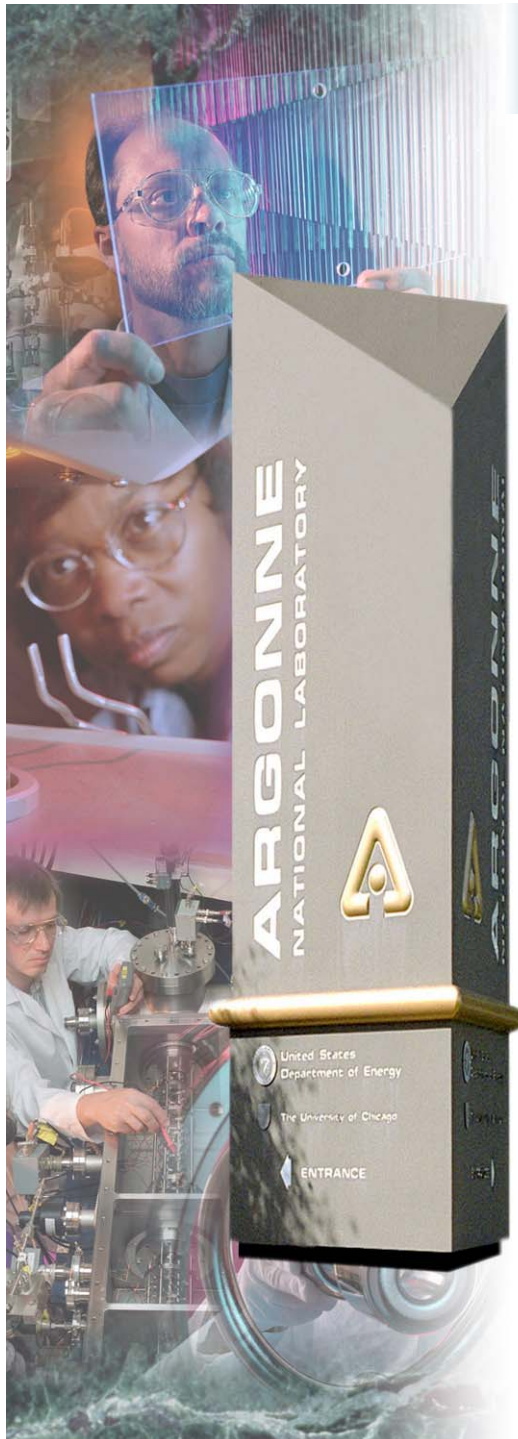


# *Overview & Welcome: Argonne National Laboratory*

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*Technology Transfer Division*

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*Argonne National Laboratory is managed by  
The University of Chicago for the U.S. Department of Energy*

## About Argonne

- **Founded in 1943, designated a national laboratory in 1946**
- **Managed by The University of Chicago for the Department of Energy**
  - ~3000 employees and 4000 facility users
  - ~\$500M budget
  - 1500-acre site in Illinois
- **Broad R&D portfolio**
- **Numerous industry/govt. sponsors**
- **Research clusters (University of Chicago, Northwestern University, University of Illinois, and Fermi National Accelerator Laboratory)**
- **Some start-up companies**



## *Argonne's Mission*

- **Serves DOE & national security**
  - **Advancing the frontiers of science**
  - **Creating and operating forefront scientific user facilities (e.g., Advanced Photon Source, Intense Pulsed Neutron Source, Center for Nanoscale Materials)**
  - **Providing innovative and effective tools and solutions for energy and environmental challenges to national and global well-being, in the near and long term**
- **In accomplishing its mission, Argonne partners with DOE, other federal labs, academia, and the private sector**
- **A major objective is to increase US industry competitiveness in science and technology fields regionally and nationally**



## *Argonne's Major Scientific User Facilities*

- **Advanced Photon Source (APS)** – over 2,000 users
- **Electron Microscopy Center (MSD)** - ~100 Users
- **Center for Nanoscale Materials (CNM)** ~50 Users
- **Computer Center (MCS)**- ~300 Users
- **Intense Pulsed Neutron Source (IPNS)** ~50 Users
- **Tandem –Linac Accelerator (Atlas)** ~50 Users
  
- **Plus -- 45+ specialized Divisional Labs accessible to industry through contract arrangements**

## *Argonne's Mission and Vision*

- Argonne's vision .....

- the coupling of basic and applied science and technology.....

to meet the fundamental physical science, energy, environmental and national security needs of DOE and the Nation.....

through collaborative R&D with industry and academia.

## *Argonne's Mission and Vision (contd.)*

- **This vision is implemented by**
  - **Providing a core foundation of nationally unique User Facilities**
  - **Leading capabilities in basic sciences and breakthrough enabling technologies,**
  - **Addressing our Nation's energy & national security requirements**
  - **Leveraging federal resources via strategic alliances with key stakeholders**
  - **Striving for the delivery of best-in-class quality research**

## *Argonne Research*

- Significant Involvement at Argonne in H2 Research
- Conference provides a forum for discussion of the challenges to change energy infrastructure
- Results of Analysis from Argonne's GREET ***Well to Wheels*** model to stimulate discussion

## *Our Core Competencies*

- **The core competencies supporting the vision are:**
  - **Inorganic and biological materials characterization, synthesis, and processing**
  - **Accelerator and detector research, technology and operations**
  - **Nuclear fuel cycle and reactor design**
  - **Transportation science and engineering**
  - **Computational sciences**
  - **Integration of computing, science, engineering, and economics expertise**
  - **Fundamental nuclear physics, tied to cosmology and the origins of the elements**



## *Explore Argonne's Opportunities*

- Argonne welcomes new collaborations with large and small industrial partners
- Argonne home page: <http://www.anl.gov>
- Technology transfer and industrial partnerships: <http://www.techtransfer.anl.gov>
- Email or phone:
  - Office of Technology Transfer**
  - **Director: [sdban@anl.gov](mailto:sdban@anl.gov); 630.252.8111**
  - **Industrial Liaison:**
    - ***Cindy Wesolowski, [weso@anl.gov](mailto:weso@anl.gov), 630 252 7694***