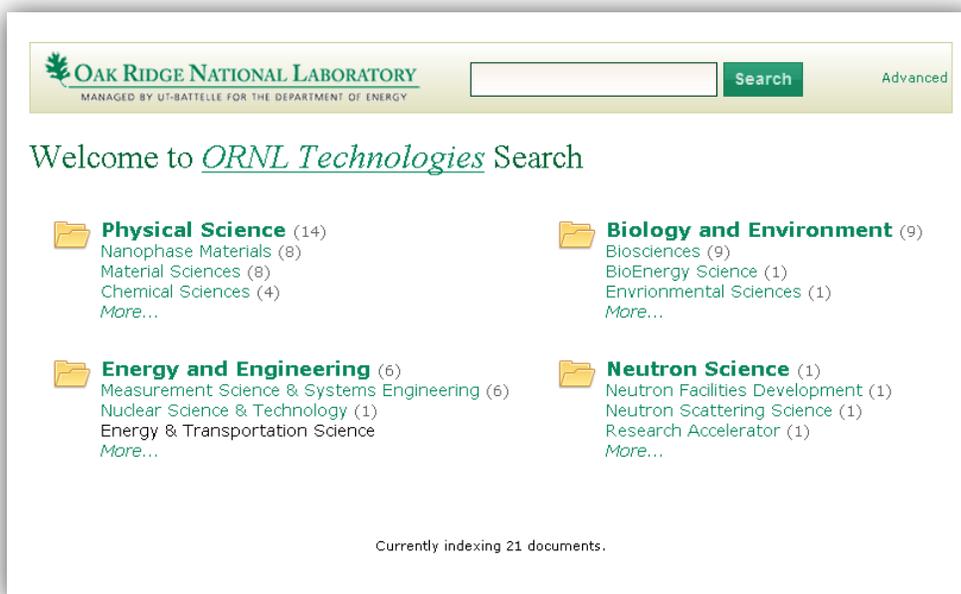


InSpire ORNL Technology Transfer

User Guide

Homepage

The homepage and topic list is where you will perform your initial interaction with the system. The **search bar** at the top of the screen allows you to enter free-form queries, like you expect from traditional search engines. The **ORNL Technologies** at the bottom allows easy navigation directly to the technologies that relate to your specific area of interest.



The screenshot shows the homepage of the InSpire ORNL Technology Transfer system. At the top, there is a header with the Oak Ridge National Laboratory logo and name, a search bar with a "Search" button, and a link to "Advanced" search. Below the header, the main content area is titled "Welcome to *ORNL Technologies* Search". It features four categories of technologies, each represented by a folder icon and a list of sub-topics with their respective counts:

- Physical Science** (14)
 - Nanophase Materials (8)
 - Material Sciences (8)
 - Chemical Sciences (4)
 - [More...](#)
- Biology and Environment** (9)
 - Biosciences (9)
 - BioEnergy Science (1)
 - Environmental Sciences (1)
 - [More...](#)
- Energy and Engineering** (6)
 - Measurement Science & Systems Engineering (6)
 - Nuclear Science & Technology (1)
 - Energy & Transportation Science
 - [More...](#)
- Neutron Science** (1)
 - Neutron Facilities Development (1)
 - Neutron Scattering Science (1)
 - Research Accelerator (1)
 - [More...](#)

At the bottom of the page, it states "Currently indexing 21 documents."

Advanced Search

The **Advanced Search** screen has a number of options to help you build a very specific query. You may use the specific fields provided, or you may edit a directly in the “**Your Query**” box near the top of the screen.

The **Title** field will match part of a document’s title. The **Body** field will find keywords within the body of a document.

The **Technology Topic** field will find matches against specific technology and research areas. This field will present you with suggestions after you have entered at least four characters. Clicking one of the suggestions that pop up will enter it into the field and add it to your query.

The **Person** field requires you to enter criteria in the form of “*Firstname Lastname*”. InSpire will offer suggestions of matching names once you have filled in at least four characters from either a person’s first or last name. Clicking one of the suggestions that pop up will enter it into the field and add it to your query.

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Body:"detector" Search Advanced

Your query:
Body: "detector"

Title
Keywords:

Technology Topic
Topic: science|
Bioscience
Neutron Science
Physical Science
Computer Science
Chemical Sciences

Body
Keywords: detector

Person
Name:
firstname lastname

Search Results

The [Search Results](#) page shows an overview of all of the results of your query, as well as options for refining it. The majority of the screen shows previews for each result, including a title, a portion of the body text, and some of the metadata associated with each document. Clicking on a [document title](#) will take you to a more complete view for that document. Clicking on either a [Source](#) link or one of the [Concept](#) links will initiate a new search around the item you clicked. For example, clicking on the “*Biosciences Division*” concept will start a new search for all documents tagged with that concept.

The [Facets](#) in the right column of the search results page control filtering of your result set. Clicking on a particular facet value (such as “*Fact Sheets*”) filters your search results to show only those results that match. Clicking on a red “X” to the right of a facet value removes matching results from your list.

Clicking [Export Results](#) will pop up a window with a number of choices for exporting results from the system. Exporting to Excel format will organize the information about each document into rows for easier offline analysis. Exporting to Zip format will package up the original files for easier offline printing.

The screenshot shows the InRAD search interface. At the top, the Oak Ridge National Laboratory logo is on the left, and a search bar contains the text "topic:'Physical Science'" with a "Search" button and an "Advanced" link. Below the search bar, a breadcrumb trail shows "Physical Science" with a close icon. A status bar indicates "Displaying 1-10 of 12 documents" and an "Export Results" button. The main content area displays two search results. The first result is titled "Carbon Nanotubes at Interface of Electronics, Aeronautics Show Exceptional Ability to Diffuse Damaging Heat" and includes a preview of the text. To its right, a "Source" facet shows "Fact Sheets (10)" and "Success Stories (2)", each with a red "X" icon. The second result is titled "LED North America Receives Exclusive Patent License for ORNL Graphite Foam Technology" and also includes a preview of the text. Below each result, there are "Source" and "Concepts" links.

Document Details

When viewing a full document, clicking on any hyperlink, such as a [Topic Area](#) or an [Inventor](#), will launch a new search using that value. Tabs on the left edge of the screen control which document detail you are currently viewing. The link to “[Read Original Document](#)” at the top of the details section will allow you to view the document in its original format, which is probably more suited for printing and sharing with colleagues.

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topic:"Neutron Facilities" [Advanced](#)

[Back to Search Results](#)

ORNL's SNS-Developed Neutron Detector System to be marketed by PartTec

PartTec, an Indiana-based manufacturer of radiation detection equipment, has signed an agreement to manufacture and market an advanced neutron detector system developed at ORNL. The Shifting Scintillator Neutron Detector system was developed for DOE's Spallation Neutron Source (SNS) and High Flux Isotope Reactor complex, the world's most advanced neutron science facility. This system can determine the time and position of the neutron captured, enabling extremely accurate neutron time-of-flight measurements. It has large-area detector coverage, extremely low power requirements, and digital communication capability, all factors that made it attractive to PartTec.

PartTec has supported the work of the Spallation Neutron Source's detector team for nearly 5 years with engineering, component manufacturing, and management expertise, said Herschel Workman, chief executive officer of PartTec. The detector is proving itself in the POWGEN and VULCAN instruments at the SNS.

Commercial interest in the product ranges from use at other neutron science facilities to security applications such as monitoring land, air, and sea shipping for the presence of fissionable material. Recently, because of constraints on the helium-3 supply and projected increasing demand, PartTec responded by re-engineering this detector system for use as an alternative to existing helium-3 detectors.

 [Read Original Document](#)

Additional Help

For additional help, please contact Bert Callahan (callahanbfjr@ornl.gov).