information technology at Argonne National Laboratory

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Chicago, Illinois

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a multi-program lab

UChicago Argonne, LLC

3,000 employees

4,250 facility users, visiting scientists, students

9,000 badged users
science & engineering

complex systems

user facilities

energy

matter
characterization of matter at the nuclear level

characterization of matter at the atomic and molecular levels

understanding complex systems through leadership computing

Argonne Tandem-Linac Accelerator System

Argonne Leadership Computing Facility

Advanced Photon Source Center for Nanoscale Materials Electron Microscopy Center

user facilities
<table>
<thead>
<tr>
<th>Category</th>
<th>Operations</th>
<th>Programs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cybersecurity</td>
<td>lab</td>
<td>lab/division</td>
</tr>
<tr>
<td>HPC &amp; User Facilities</td>
<td>lab</td>
<td>division</td>
</tr>
<tr>
<td>IT Support (helpdesk, desktop, LAN, email, calendar, etc.)</td>
<td>lab</td>
<td>mixed</td>
</tr>
<tr>
<td>Business Systems</td>
<td>lab</td>
<td>lab/division</td>
</tr>
<tr>
<td>Lab Networks &amp; Telecom</td>
<td>lab</td>
<td>lab</td>
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</tbody>
</table>
IT is people
science
collaboration
business
a digital laboratory
computing, data
navigating
web 2.0 lab services
science / engineering

**ALCF Intrepid**
556 Teraflops IBM BG/P
163,840 processors,
80TB memory

Image (Supernova simulated at ALCF): UChicago FLASH Center
science / engineering

new core backbone

free storage services

lab computing resource
navigating new document services and internal social networks.
doing business

“I am increasingly overloaded by the amount of information I have to deal with”
doing business

exploit

routines

calendar (subscriptions)

browser (RSS)

email
architecture

interaction/notification interface

applications

application service interface

services

infrastructure
application services

web services standards

services

authorization
authentication
database
workflow
data storage
content mgmt

infrastructure
applications

- messaging
- calendar
- safety management
- gatepass
- cybergatepass
- contracting
- purchasing
- (travel) expense mgmt
- performance appraisal
- training management
- job hazard
- facilities management
- chemical management
- time
- open client
- expert interface
- legacy third party
- in-house

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examples

one login (once)
intuitive navigation
consistent interface experience
people

science

collaboration

business