Information International Associates (IIa)

CORPORATE OVERVIEW

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We are going to tell you about...

● Overview of the company
  - Who we serve
  - Core Competencies: where we deliver them and how much of the company they represent.

● Focus on two potential areas of interest
  - Research and Analysis
  - Knowledge organization and management

● Where we are going
  - Innovations
Navigators in a Sea of Data

• Founded in 1988
• Woman-owned, small business headquartered in Oak Ridge, TN
• Leaders in Scientific and Technical Information (STI) Life Cycle Management
• Track Record for Innovation
• (10 SBIRS, STTR, EPSCoR)
• 175 employees across the U.S.
• and Europe
• DOE and DoD clearances; FOCI
• ISO 9001:2008 Registered
### IIa Services for Market (Agencies)

<table>
<thead>
<tr>
<th>Category</th>
<th>Policy &amp; Strategic Planning</th>
<th>Information Technology</th>
<th>Knowledge Organization &amp; Management</th>
<th>Research &amp; Analysis</th>
<th>Innovation Research &amp; Development</th>
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<td>STI &amp; Other Civ Agencies</td>
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<td>• ORNL</td>
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<td>• NTIS</td>
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<td>• CENDI</td>
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<td>• Libraries</td>
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<td>• IMLS</td>
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<td>Commercial</td>
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Work by Type of Service

Service Areas
- Policy & Strategic Planning
- Information Technology
- Knowledge Organization & Management
- Research & Analysis
- Innovation Research & Development
Core Competencies

- Policy & Strategic Planning
  - Planning
  - Organization
  - Discovery
  - Collection
  - Classification
  - Management
  - Distribution

- Information Organization and Management
  - Information Systems Management & Operations
  - Full systems life cycle support

- Research & Analysis
  - Open Source Information Research
  - Inter-agency exchange
  - Federal STI policy involvement

- Information Technology

IIa Information International Associates
Input to National Information Policy

• CENDI
  - Input to national policy, e.g. E-gov Act, Open Access Policy
  - Technical Workshops & Discussions, e.g. Search, Visualization, Personally Identifiable Information
  - Joint projects, e.g. Science.gov

• OSTP/NSTC
  - IWGDD: Develop Strategic Plan for Access and Preservation of our national scientific data assets
  - BioEco: Coordinate national and international Biodiversity informatics activities

• NAS/NRC Board on Research Data & Information
  - US Representative to International CODATA
  - National Academy US National Committee on CODATA
Strategic Planning for Government Clients

Helping government organizations identify and achieve high performance goals.

• Strategic Planning
  Aligning plans to future business & technical possibilities

• Human Capital / talent management
  Assuring the people are the most critical asset

• Marketing and Business Development
  Sustaining hi-relevance work

• Benchmarking
  Identifying and exploiting best practices

• Operational Effectiveness
  Bring it all together – organizations and metrics
# Information Technology Support

IIa is experienced in providing IT support, with a focus on scientific, technical, business, and engineering information process management using IT solutions. We work with both COTS and open source products, and develop 21st century tools in traditional or cloud computer environment. We provide government with support to navigate the social media waters.

<table>
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<tr>
<th>IT Function</th>
<th>IIa Experience</th>
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<tr>
<td>Systems engineering &amp; administration (traditional and cloud based)</td>
<td>Installing, supporting, configuring, maintaining servers / systems. Moving traditional systems to cloud based services. Established relationships with multiple cloud providers.</td>
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<tr>
<td>Application development and maintenance</td>
<td>Needs assessment, requirements analysis, cost-benefit analyses, project planning, design, development, implementation, testing and maintenance. Methodologies: agile, and spiral. Providing technical assessments, prototype development, and process reengineering. ASP, JSP, JAVA, CGI, PERL, C++, XML</td>
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<tr>
<td>Database development and administration</td>
<td>Planning, analyzing, designing, testing and implementing high volume terabyte size databases. Extensive experience moving from one platform to another. Postgres, Oracle, MySQL, Access, FoxPro, Fedora, Dspace</td>
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<tr>
<td>Network administration</td>
<td>Management of classified and unclassified networks. Wired and wireless based systems.</td>
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<td>Help desk support</td>
<td>Troubleshoot HW &amp; SW for computers and peripherals. 3 tier: 1) via phone, 2) direct contact or 3) referral to specialists.</td>
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<td>Desk side support</td>
<td>Support to laptops, desktops, PDAs and other peripherals</td>
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<tr>
<td>Data management</td>
<td>Architecture, policies, protocols, practices and procedures to manage digital data. Data discoverability (search). Data modeling, DB design, data bundling, mashups, visualization products.</td>
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IIa Information International Associates
Department of Energy
Office of Scientific and Technical Information

• Provide 24/7 IT support and development
  ▪ Enterprise architecture, networks, HW, SW development, helpdesk, etc.
  ▪ Support both classified and unclassified processing
  ▪ Social media, mobile apps and sites

• STI content lifecycle support to DOE science and technology information
  ▪ Maintain DOE Energy Data Base, Preprint network, Science.gov, Worldwidescience.org
  ▪ Web usage of OSTI in 2007: 80 million

• Making DOE information and data widely available
  ▪ New databases and content management systems
  ▪ Portals and accessibility breakthroughs
  ▪ Data management
  ▪ Application of information science tools and processes

• Support for Innovation

• Performance Highlight
  ▪ Key thought leader and developer of “Science.gov” and numerous innovative STI management, search, and presentation techniques
Education and Training
IT Support Services

• Management of the Base Enlisted Specialty Training (OJT) programs and support for Personnel Systems Management (PSM)
  ▪ Eglin AFB, FL
  ▪ RAF bases in Lakenheath and Mildenhall, UK

• Manage the Education Training Management System (ETMS) and provide Customer and Administrative Support to Education Centers
  ▪ Eglin AFB, FL

Also: helpdesk and desktop support, network and systems administration, data management, information and systems engineering, cyber security, information science and tools, image processing, web and applications development
Support for the USGS Information Infrastructure
Biodiversity Informatics Program

Provide 24/7 IT & KM support and development by integrating services and technologies

- DB development and management
- Web development & CMS
- Mashups
- Web services
- Social media development and strategies
- GIS data product development digital data curation
- Systems design and development
- Systems administration
- Content management
- graphics design/development
Information Assurance

- ORNL - Policy and procedure development
- OSTI - FISMA Compliance
  - Providing overall information technology and security operations, including security practice management.
  - Planning solutions relating to vulnerability assessment, risk mitigation, risk assessments, 800.53A control assessments, security remediation, and C&A of a major application and underlying control verification.
Research & Analysis

- Roots in Open Source Intelligence
- Strategy Is to Move to Analysis
- Focus on Tools
- Growing segment of the business

SBIR work towards research and analysis tools for the intelligence community in partnership with CISML faculty
Research and Analysis
Intelligence Agencies and Commercial Clients

- 19 years of Open Source Research Experience
- Extensive language capabilities
- Information research and acquisition – focus areas
  - Science and technology
  - General military intelligence
  - Socio-cultural information
  - Foreign medical capabilities
- Information classification and control
- Large number of cleared personnel
Medical Capabilities Studies

- Critical for military planners and strategic decision makers
- More than 250 baseline studies of country/regions medical capabilities and infrastructure, including:
  - medical and personnel infrastructure
  - epidemiological data
  - major diseases
  - medical supplies and equipment
  - biotechnology capabilities
  - disaster preparedness
  - pharmaceutical data
- Digital Repository
Knowledge Organization and Management

- Foundations of the business since 1988
- Builds on our Library and Information Science leadership
- Key niche area both for special projects and part of major IT architectures
- Innovations in Web 3.0
Knowledge Organization and Management
Advanced Information Sciences

- Knowledge organization sources/systems
  - Taxonomy and ontology development
  - Metadata and content standards
  - Building Knowledge Domains
- Automatic indexing and classification
  - Streaming Technologies with speech-to-text indexing
- Search
  - Search engine optimization
  - Enhancement of multilingual searching
- Documentation to Scientific Data Management
- Data Systems Quality Control
- Digital archiving and preservation
- Usability analysis
- Rights management initiatives
- Institutional Repositories (Open Source)
  - NTIS
  - NOAA
Terminology Experience

- Provided support to EPA since 2005
  - Reengineering of Terminology Reference System
  - Supported the development of the Web Taxonomy Project
  - Supporting the development of the Office of Research & Development Taxonomy

- Contributed to the development of and/or maintenance of controlled lists/taxonomies/thesauri for
  - the World Bank, NASA GSFC, USGS BIP, National Agricultural Library, USGS & EU EA (Ecoinformatics), Science.gov, and National Institute for Literacy

- Provide support services and expertise to the CENDI Terminology Task Group for 13 agencies
Information System Quality Control

- **DOE ERIC Database**
  - Monitor and measure the performance of the online ERIC system at [www.eric.ed.gov](http://www.eric.ed.gov)
  - Evaluate key ERIC contract deliverables

- **NLM AIDS Conference Material Digitization**
  - Mentoring Indian Tribe
  - Developed the technical performance and quality assurance standards
  - Oversaw pilot testing
  - Monitoring production
## ENVIRONMENTS/PHYSICAL & VIRTUAL

<table>
<thead>
<tr>
<th>Physical Environments</th>
<th>Virtual Environments</th>
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<tr>
<td>Information Centers</td>
<td>Libraries</td>
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<tr>
<td>Databases</td>
<td>Clearinghouses</td>
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<td>Records Centers</td>
<td>Archives</td>
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<tr>
<td>Knowledge Management Centers</td>
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## SERVICES

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<th>Services</th>
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<tr>
<td>Assessments</td>
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<tr>
<td>Design &amp; Development</td>
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<tr>
<td>Operations</td>
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## COMPETENCIES

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<th>Competencies</th>
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<tr>
<td>Legal and Policy Regimes</td>
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<tr>
<td>(Intellectual Property, Privacy…)</td>
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<tr>
<td>Tools Methods &amp; Standards</td>
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<tr>
<td>(Ontologies, Thesauri, Digitization,</td>
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<tr>
<td>Preservation…</td>
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## MANAGING KNOWLEDGE ASSETS THROUGH THE LIFE CYCLE

Voice, Video, Data, Images, Multimedia, Text
Innovations, Technology Transfer, and Commercialization

- 9 SBIRs, 1 STTR, 2 have gone to Phase 2
  - DOE, EPSCoR, and DOD
- STI Processing reengineering
  - DOE OSTI, NTIS
- Automated Data Harvesting
  - GPO and EPA
- Use of Social Media to Disseminate STI
  - DOE OSTI, USGS BIP
- Movement to Open Source Software
  - DOE OSTI
IIa Mission Statement

Innovate
ASTOUND OUR CUSTOMERS
Grow together
HAVE FUN
CHANGE THE WORLD THRU KNOWLEDGE
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