ISI is a place where imagination reigns, where people are free to roam a universe of ideas.

From its earliest work in programming languages, software verification and information automation to its most recent efforts in machine learning, health informatics, and human language understanding, ISI has been at the forefront of each succeeding generation of computing and information research. ISI also played a unique role in convening the community of researchers that brought the Internet to life.

WHAT WE DO

Artificial intelligence constitutes nearly 50% of our funded research. In addition to AI, ISI employs internationally recognized experts in internet communications and advanced networking, privacy and security, grid computing, electronic commerce, integrated circuit design and fabrication, and space electronics.

WHAT MAKES US UNIQUE

ISI is a one-of-a-kind research ecosystem. No other computer science research organization combines our PhD-level academic research across multiple disciplines with a real world focus and systems building capability. This has contributed to ISI’s continued remarkable success. Few organizations invent world-changing technologies. Very few do it over and over again.

For more information:  www.isi.edu   ISI Public Relations:  Magali Gruet  mgruet@isi.edu
$72M ANNUAL RESEARCH EXPENDITURES

440+ FACULTY, STAFF, STUDENTS

35 FACULTY FROM 8 DEPARTMENTS

53 RESEARCH GRANTS

110 PH.D STUDENTS

50% FUNDED RESEARCH IN THE FIELD OF AI

*NUMBERS FROM YEAR 2022

Artificial Intelligence
Machine learning, natural language, image and video processing, knowledge graphs, commonsense reasoning, AI fairness, machine translation, misinformation

Cybersecurity and Networking
Network measurement, binary analysis, research infrastructure, social engineering attacks, distributed computing, cyber experimentation

Computational Systems Technology
Emerging quantum information systems, science automation software, heterogeneous cloud and edge systems, secure electronics, novel microelectronics

Informatics Systems Research
Network services architectures, data management, computer security, user interfaces, and domain-specific algorithms

MOSIS
Automation of semiconductor integrated circuit design with state-of-the-art process technologies

Centers and Labs
14 units targeting research areas including space, visual intelligence, quantum, data lifecycle, knowledge graphs, and more

For more information: www.isi.edu

ISI Public Relations: Magali Gruet mgruet@isi.edu
Our Achievements

**Internet Technologies**
From its earliest days through the creation of the DNS, video and audio communications, and modern network reliability research, ISI has a history of contributions to the development of the Internet.

**MOSIS Services**
Danny Cohen created MOSIS, the first integrated circuit foundry service, transforming academic VLSI research and ultimately revolutionizing the industry.

**Natural Language**
ISI created computing machines that understand written and spoken human languages the way humans do. ISI research led to the first practical system for large-scale machine translation of human languages.

**Quantum Computing**
Complementing a rich theoretical research program, ISI created the first nationally available shared quantum research infrastructure in collaboration with D-Wave Systems and Lockheed Martin.

Our Collaborations

**Corporate**

Google
Amazon
SpaceX
NASA
IBM
Bosch
Lockheed Martin

**Academia**

Rutgers
Brown
Carnegie Mellon University
MIT
University of Maryland

Established in 1972
by Keith Uncapher

Locations
Marina Del Rey, CA
Arlington, VA
Waltham, MA

Executive Director
Craig Knoblock

For more information: [www.isi.edu](http://www.isi.edu)

ISI Public Relations: Magali Gruet mgruet@isi.edu