

The Indiana University Pervasive Technology Institute

The mission of the Indiana University Pervasive Technology Institute (PTI) is to improve the quality of life in the state of Indiana and the world through novel research and innovation and service delivery in the broad domain of information technology and informatics.

Six research centers are formally affiliated with PTI, as follows:

- [UITS Research Technologies \(RT\)](#) Division. The Research Technologies Division develops, delivers, and supports cyberinfrastructure for IU and for scholars, educators, clinicians, engineers, and artists throughout the United States. UITS Research Technologies (RT) is affiliated with PTI and OVPIT, and is a division of UITS.
- Center for Applied Cybersecurity Research (CACR) (Von Welch, Director). CACR leads the creation of IT security policy, security tools, and secure applications in critical areas of cyberinfrastructure, including health. CACR is affiliated with PTI, the IU Maurer School of Law, and OVPIT.
- Data to Insight Center (D2I) (Beth Plale, Director). D2I focuses on the life cycle of digital data while furthering tools for discovering and gaining insight from the vast quantities of data now produced in digital form. D2I is affiliated with the IU School of Informatics, Computing & Engineering; OVPIT and UITS; and works closely with the IU Libraries.
- Digital Science Center (DSC) (Geoffrey C. Fox, Director) DSC advances cloud computing and network science, with a focus on developing human-centered interfaces to cyberinfrastructure. DSC is a research center of the IU School of Informatics, Computing, and Engineering and is affiliated with PTI.
- National Center for Genome Analysis Support (NCGAS) (Thomas Doak, Manager). NCGAS provides bioinformatics software services and support for genomics analysis to the national biological research community. NCGAS is affiliated with PTI; the School of Informatics, Computing, & Engineering; OVPIT and UITS; and the IU Bloomington College of Arts and Sciences.
- Science Gateways Research Center (SGRC) (Marlon Pierce, Director). SGRC enables novice and power users alike to access scientific applications, tools, and services via web-based portals. SGRC is affiliated with PTI and a subunit of OVPIT.

The diagram below shows how IU researcher (and scholar and artist) priorities drive the research agenda of PTI, which is also influenced by US federal priorities. PTI, in turn, influences US national research priorities based on what we learn from our IU colleagues. The result is a cycle in which IU artist, scholar, and researcher needs help drive the PTI research agenda, and then PTI transforms computer science, informatics, and cyberinfrastructure innovations into high quality and robust tools usable by the IU, national, and international research communities.



The IU Pervasive Technology Institute was initiated with generous funding from the Lilly Endowment, Inc., and is sustained by Indiana University.