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# ITI's 2007 Undergraduate Research Internship Program Underway

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ITI Staff

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2007 Interns

## 2007 Interns

The University of Illinois Information Trust Institute's inaugural summer Undergraduate Research Internship program is now underway, under the leadership of Prof. Carl Gunter.

40 applications were received from undergraduate students around the world. The 18 students selected are participating in 8- to 10-week research projects at the University of Illinois at Urbana-Champaign and Washington State University, supervised by ITI researchers in a number of information trust research areas. The awards, which are supported by state and federal funds, include intern stipends and, in some cases, an allocation for travel expenses. Faculty and senior researchers from the UI departments of Computer Science, Electrical and Computer Engineering, and Aerospace Engineering, as well as the National Center for Supercomputing Applications, are participating this year.

Below is a list of the successful applicants and their faculty mentors. Congratulations to the selected students!

- **Suhas Aggarwal** of IIT, Guwahati, will work with Prof. Carl Gunter on the substation automation project within ITI's Trustworthy Cyber Infrastructure for Power (TCIP) Center.
- **David Albrecht** of UIUC will work with Prof. Nikita Borisov on vulnerabilities in network software and writing vulnerability descriptions.
- **David Anderson** of Washington State University (WSU) will work with Prof. David Bakken of WSU on the WSU portion of ITI's TCIP testbed configuration and support.
- **David Bergman** of UIUC will work with Prof. David Nicol on integrating RINSE simulation software into the Trusted ILLIAC testbed.
- **Tamal Das** of IIT, Delhi, will work with Dr. Himanshu Khurana on the design, setup, and security evaluation of the TCIP testbed.
- **Milos Gligoric** of the University of Belgrade will work with Prof. Darko Marinov on software testing and model checking.
- **Luke Gotszling** of UIUC will work with Prof. Tamer Basar on designing a system that will utilize neural or Bayesian network techniques, supplementing the rule-based systems currently in use for deciding which traffic is allowed.
- **Priyank Gupta** of IIT, Delhi, will work with Prof. Marianne Winslett on a project aimed at enhancing the flexibility and security of the Disaster Management Interoperability Services (DMIS) software package.

- **Tihomir Gvero** of the University of Belgrade will work with Prof. Darko Marinov on software testing and model checking.
- **Mujtaba Hasan** of IIT, Delhi will work with Prof. Cedric Langbort on modeling, analysis, and control of multiplayer online games.
- **Loren Hoffman** of WSU will work with Prof. Dave Bakken of WSU on refactoring GridStat code for portability and usability by other TCIP projects, and document the processes by which GridStat is built and configured.
- **Julie Honcharevic** of UIUC will work with Prof. Tim Bretl on the design and implementation of brain-machine interfaces for control of trusted semi-autonomous robotic systems.
- **Aditya Khanna** of IIT, Delhi, will work with Adam Slagell on expanding the power and usability of FLAIM, the flagship software of the LAIM working group at NCSA.
- **Billy Lau** of UIUC will work with Prof. Vikram Adve on porting the MacOS kernel (Darwin) to the Secure Virtual Architecture.
- **Raoul Rivas** of UIUC will work with Prof. Klara Nahrstedt on supporting integration of power-aware wireless systems into the TCIP testbed.
- **Nathan Schubkegel** of WSU will work with Prof. Dave Bakken of WSU on developing a new GridStat visualization system and new GridStat demonstration applications within ITI's TCIP Center.
- **Arshdeep Singh** of IIT, Delhi will work with Prof. Todd Coleman on developing statistical signal processing methodologies for some security applications.
- **Yunfan "Andy" Ying** of UIUC will work with Prof. Sam King on building a functional simulator capable of booting an operating system, to be used for security research.

#### ***About the Information Trust Institute (ITI)***

The Information Trust Institute is a multi-disciplinary cross-campus research unit housed in the College of Engineering at Illinois. It is an international leader combining research and education with industrial outreach in trustworthy and secure information systems. ITI brings together over 90 faculty, many senior and graduate student researchers, and industry partners to conduct foundational and applied research to enable the creation of critical applications and cyber infrastructures. In doing so, ITI is creating computer systems, software, and networks that society can depend on to be trustworthy, that is, secure, dependable (reliable and available), correct, safe, private, and survivable. Instead of concentrating on narrow and focused technical solutions, ITI aims to create a new paradigm for designing trustworthy systems from the ground up and validating systems that are intended to be trustworthy. [www.iti.illinois.edu](http://www.iti.illinois.edu)

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