

<b>NSF Cyber Security FY04 Summary</b>	
<b>Includes FY04 Cyber Trust awards and related FY04 ITR and CAREER awards</b>	
<b>Award Classifications for FY04 core cyber security awards</b>	<b>Code</b>
Cyber Trust Center Scale Activity	CT-CS
Cyber Trust Team	CT-T
Cyber Trust Individual/Small Group	CT-ISG
Cyber security related CAREER	CAREER
Cyber Security Related ITR	ITR
<b>Technical area classifications</b>	
<b>Cyber Trust solicitation (broad categories)</b>	
Multi-disciplinary / interdisciplinary	CT-MI
Application	CT-App
Systems	CT-Sys
Networking	CT-Net
Foundations	CT-Fnd
<b>CSRDA categories</b>	
authentication, crypto, secure comms	A
forensics and intrusion detection	B
reliability of elements and infrastructure	C
privacy and confidentiality	D
network sec arch; incl sec admin/analysis	E
emerging threats	F
vulnerability assess & risk quant	G
remote access and wireless security	H
enhance law enforcement, incl IP piracy	I
<b>Looking backward / moving forward (attack phase)</b>	
Forensics / perps	1
Recovery / reconstitution	2
Surviving attacks	3
Detection / understanding attacks	4
Preventing attacks	5
Building things right	6
Knowing what's right to build	7
<b>Security "disciplines"</b>	
OS security, secure storage, secure files	OS
Network security	Net
Application / DB / web security	App
Cryptography and applied crypto	Crypto
Security/Privacy/Trust modeling and specification	SM
Secure system architecture	Sarch
Secure system development	Devel
Security testing / evaluation	T&E
Forensics	For

NSF Award #	Proposal Title	PI Linked to Abstract	Awd type	Solicitation Category	Security Lifecycle	Security Discipline	Lead Institution	Collaborators Linked to Abstracts
0433540	CyberTrust Center: Security Through Interaction Modeling (STIM)	<a href="#">Reiter</a>	CT-CS	CT-Sys	4	SM	Carnegie Mellon University	
0433668	Collaborative Research: Cybertrust Center for Internet Epidemiology and Defenses	<a href="#">Savage</a>	CT-CS	CT-Net	1	Net	U of Cal San Diego	<a href="#">Paxson</a>
0430378	Collaborative Reseach: Type Qualifiers for Software Security	<a href="#">Aiken</a>	CT-T	CT-Fnd	5	T&E	Stanford University	<a href="#">Foster</a> <a href="#">Wagner</a>
0430510	Byzantine Replication for Trustworthy Systems	<a href="#">Alvisi</a>	CT-T	CT-Fnd	7	Sarch	U of Texas Austin	
0430271	Collaborative Research: A Survivable Information Infrastructure for National Civilian BioDefense	<a href="#">Amir</a>	CT-T	CT-Net	3	Sarch	Johns Hopkins University	<a href="#">Ostrovsky</a> <a href="#">Nita-Rotaru</a>
0430274	Collaborative Research: A Comprehensive Policy-Driven Framework for Online Privacy Protection: Integrating IT, Human, Legal and Economic Perspectives	<a href="#">Bertino</a>	CT-T	CT-MI	7	SM	Purdue University	<a href="#">Anton</a>
0430258	Cyber Trust - Restore the Trustworthiness of Digital Photographs: Blind Detection of Digital Photograph Tampering	<a href="#">Chang</a>	CT-T	CT-App	1	App	Columbia University	
0428422	An Economic Approach to Security	<a href="#">Feigenbau</a>	CT-T	CT-MI	7	Net	Yale University	
0429591	Trusted Certification Tools	<a href="#">Hunt, Jr.</a>	CT-T	CT-Fnd	6	Devel	U of Texas Austin	
0430487	Collaborative Research: SecureCore for Trustworthy Commodity Computing and Communications	<a href="#">Lee</a>	CT-T	CT-Sys	5	OS	Princeton University	<a href="#">Irvine</a> <a href="#">Schorr</a>
0430474	Experiments in CyberSpace	<a href="#">Maxion</a>	CT-T	CT-Fnd	4	T&E	Carnegie Mellon University	
0430425	Securing Untrusted Software with Interposition	<a href="#">Mazieres</a>	CT-T	CT-Sys	3	OS	New York University	
0430444	ForNet: Design and Implementation of a Network Forensics System	<a href="#">Memon</a>	CT-T	CT-Net	1	For	Polytechnic Univ of NY	
0430594	Collaborative research: High-fidelity methods for security protocols	<a href="#">Mitchell</a>	CT-T	CT-Fnd	6	Crypto	Stanford University	<a href="#">Scedrov</a> <a href="#">Shmatikov</a> <a href="#">Miccancio</a>
0430338	Collaborative Research: Using generative models to evaluate and strengthen biometrically enhanced systems	<a href="#">Monrose</a>	CT-T	CT-App	5	App	Johns Hopkins University	<a href="#">Reiter</a> <a href="#">Lopresti</a>
0430161	Integrating Security and Fault Tolerance in Distributed Systems	<a href="#">Myers</a>	CT-T	CT-Fnd	7	Sarch	Cornell University-Endowed	
0430354	An Adaptive Integrated Behavior Monitoring and Modeling Approach for High Performance/High Speed Network Computing Environments	<a href="#">Vaughn</a>	CT-T	CT-Sys	4	Sarch	Mississippi State Univ	
0430303	Secure Personalization: Building Trustworthy Recommender Systems	<a href="#">Burke</a>	CT-ISG	CT-App	3	App	DePaul University	
0430450	Cryptographic Foundations of Cyber Trust	<a href="#">Goldwasse</a>	CT-ISG	CT-Fnd	7	Crypto	MIT	
0430477	OS Support for Application Installation, Execution, and Management in an Untrustworthy World	<a href="#">Gribble</a>	CT-ISG	CT-Sys	5	OS	U of Washington	
0430593	Privacy and Surveillance In Wireless Networks	<a href="#">Grunwald</a>	CT-ISG	CT-Net	7	Net	U of Colorado Boulder	
0430402	Collaborative Research: Privacy-Aware Information Release Control	<a href="#">Jajodia</a>	CT-ISG	CT-App	5	SM	George Mason University	<a href="#">Wang</a>
0430622	Privacy-Protecting Mechanisms for Data Escrow and Transaction Monitoring	<a href="#">Jarecki</a>	CT-ISG	CT-App	7	Crypto	U of Cal Irvine	
0430175	Collaborative Research:Temporal Aspects	<a href="#">Jeffrey</a>	CT-ISG	CT-Fnd	6	Devel	DePaul University	<a href="#">Bruns</a>
0430318	Network Security Begins at Home: Changing Consumer Behavior for I-Safety	<a href="#">LaRose</a>	CT-ISG	CT-MI	7	T&E	Michigan State University	
0430204	Real-Time Internet Routing Anomaly Detection and Mitigation	<a href="#">Mao</a>	CT-ISG	CT-Net	4	Net	University of Michigan	
0430406	Exploring Risk Perception and Ultimate Trust in Online Environments:Viewpoints of the Visually-Impaired	<a href="#">Mills</a>	CT-ISG	CT-MI	7	SM	Purdue Universtiy	
0430228	Collaborative Research: DefCOM - Distributed Defense against DDoS Attacks	<a href="#">Mirkovic</a>	CT-ISG	CT-Net	3	Net	University of Delaware	<a href="#">Reiher</a>
0430223	Collaborative Research: Trustworthy and Resilient Location Discovery in Wireless Sensor Networks	<a href="#">Ning</a>	CT-ISG	CT-Net	3	Net	North Carolina State U	<a href="#">Du</a>
0430436	Detection of Self-Propagating Malicious Code	<a href="#">Radha</a>	CT-ISG	CT-Net	4	Net	Michigan State University	
0429411	Defense from Cyber-Attack Using Deception	<a href="#">Rowe</a>	CT-ISG	CT-MI	4	App	Naval Postgraduate School	

0430336	New Complexity-Theoretic Techniques in Cryptography	<a href="#">Vadhan</a>	CT-ISG	CT-Fnd	7	Crypto	Harvard University
0430304	Controlling Internet Denial-of-Service with Capabilities	<a href="#">Wetherall</a>	CT-ISG	CT-Net	5	Net	U of Washington
0430224	Design and Implementation of Hydra: A Platform for Survivable and Secure Storage Systems	<a href="#">Xu</a>	CT-ISG	CT-Sys	3	OS	Washington University
0430565	Trustworthy Data Sharing and Management for Collaborative Pervasive Computing Applications	<a href="#">Yau</a>	CT-ISG	CT-Sys	5	Sarch	Arizona State University
0347252	CAREER: A Multiresolution Approach to Network Anomaly and Intrusion Detection	<a href="#">Barford</a>	CAREER	CT-Net	4	Net	U of Wisconsin Madison
0347968	CAREER: XML Middleware for Privacy-Preserving Database Publishing	<a href="#">Deutsch</a>	CAREER	CT-App	6	SM	U California San Diego
0346989	CAREER: Programming Languages for Reliable and Secure Low-level Systems	<a href="#">Hicks</a>	CAREER	CT-Fnd	6	Devel	U of MD College Park
0347661	CAREER: Efficient Cryptographic Protocols for Secure and Private Cryptographic Transactions	<a href="#">Lysyanska</a>	CAREER	CT-App	5	Crypto	Brown U
0347839	CAREER: Strengthening Cryptography by Reducing Assumptions about the Adversary.	<a href="#">Malkin</a>	CAREER	CT-Fnd	7	Crypto	Columbia U
0347807	CAREER: Secure and Resilient Sensor Network Communication Infrastructure	<a href="#">Perrig</a>	CAREER	CT-Net	5	Net	Carnegie Mellon U
0347542	CAREER: Type Systems for Secure Code Migration	<a href="#">Riely</a>	CAREER	CT-Sys	6	Devel	DePaul U
0347623	CAREER: Biologically Motivated Models for the Dynamics of Computer Networks: Performance, Growth and Pathological Conditions	<a href="#">Sikdar</a>	CAREER	CT-Net	4	SM	Rensselaer Polytech Inst
0346903	CAREER: Test-Driven Development of Secure and Reliable Software Applications	<a href="#">Williams</a>	CAREER	CT-Fnd	6	Devel	North Carolina State U
0346939	CAREER: Language-based Distributed System Security	<a href="#">Zdancewic</a>	CAREER	CT-Fnd	6	Devel	U of Pennsylvania
0428554	ITR: The Design and Use of Digital Identities	<a href="#">Bertino</a>	ITR	CT-App	7	SM	Purdue U
0428168	ITR: Privacy-Preserving Data Integration and Sharing	<a href="#">Clifton</a>	ITR	CT-MI	5	App	Purdue U
0427748	ITR: Panopoly: Enabling Safe Ubiquitous Computing Environments	<a href="#">Kleinrock</a>	ITR	CT-Sys	7	App	UCLA
0426623	ITR: Secure Remote Computing Services	<a href="#">Nieh</a>	ITR	CT-Sys	5	Sarch	Columbia U
0427700	ITR: Large-Scale Network Simulation for Security and Survivability Evaluation	<a href="#">Riley</a>	ITR	CT-Net	4	Net	Georgia Tech U