

----- Original Message -----

From: [Joseph Kizza](#)
To: [Herbert Burhenn](#)
Sent: Friday, January 12, 2007 1:31 PM
Subject: Re: New center

Hello Provost Herbert Burhenn -

This is great news for us and UTC. We are going to start looking for funding and development of programs beneficial to UTC and the community.

Thank you so much for your efforts that have made this possible!

Best, joseph

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Dr. Joseph Migga Kizza
Professor
Department of Computer Science
College of Engineering and Computer Science
The University of Tennessee-Chattanooga
Chattanooga, Tennessee, 37403
Tel: 1-423-425-4043; Fax: 1-423-425-5229
<http://www.utc.edu/~jkizza/>

It would be good if we were not to fail in our endeavors, but we do. It is wonderful, though, when we fail because we learn from the experience. Those who do not learn are doomed to fail for life.

----- Original Message -----

From: [Herbert Burhenn](#)
To: [Joseph Kizza](#) ; [Ronald Bailey](#)
Sent: Friday, January 12, 2007 1:28 PM
Subject: FW: New center

Here's the official approval of the Center of Information Security and Assurance.
Herb

Herbert Burhenn
Acting Provost and Vice Chancellor for Academic Affairs
University of Tennessee at Chattanooga
Dept. 5555
615 McCallie Avenue
Chattanooga, TN 37403
423-425-4633
Herbert-Burhenn@utc.edu

This correspondence should be considered a public record and subject to public inspection pursuant to the Tennessee Public Records Act.

From: Levy, Robert A [mailto:rlevy@tennessee.edu]
Sent: Friday, January 12, 2007 12:53 PM
To: Herbert Burhenn
Cc: petersen@tennessee.edu
Subject: RE: New center

Herb—

Pres. Petersen approves this proposal to create CISA. No further action is required by the UT Board of Trustees or THEC. I have no doubt that UTC and Prof. Kizza will make CISA a success. If there is anything I can do to be of assistance, please do not hesitate to contact me.

Best,
Bob

Robert A. Levy, Ph.D.
Vice President for Academic Affairs & Student Success
The University of Tennessee
819 Andy Holt Tower
Knoxville, TN 37996
Phone: (865) 974-3843
Fax: (865) 974-0476
E-mail: rlevy@tennessee.edu
cell phone: (865) 548-0992

From: Herbert Burhenn [mailto:Herbert-Burhenn@utc.edu]
Sent: Wednesday, January 10, 2007 2:43 PM
To: Levy, Robert A
Subject: New center

Bob,
Attached is a proposal to create a Center of Information Security and Assurance. As you will see from the proposal, it is an entity created as a conduit for external funding and will no doubt discretely disappear if no funding is forthcoming. May we have your approval for this center?
Herb

Herbert Burhenn
Acting Provost and Vice Chancellor for Academic Affairs
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**REQUEST FOR APPROVAL TO ESTABLISH/RENEW A
BUREAU, INSTITUTE, CENTER, OR JOINT INSTITUTE AT
THE UNIVERSITY OF TENNESSEE AT CHATTANOOGA**

Type of Center:

Bureau Institute Center Joint Institute

Type of Proposal

New Program Renewal of Existing Program

Name of Center:

Center of Information Security and Assurance at UTC

Contact Information:

Director: Professor Joseph M. Kizza, Ph.D.

Mailing Address: Dept. of Computer Science, 2302
(423) 425-4043

Telephone: _____

FAX: (423) 425-5442

e-mail: Joseph-Kizza@utc.edu

Brief Description of Center:

The InfoSec Center at UTC is a center for Information Security and Assurance within the Department of Computer Science, and in collaboration with the Departments of Management and Criminal Justice. Our mission is to serve as a regional model for promoting excellence in information security education, assisting businesses, government agencies, education institutions and industry in their information security needs, and serving as the first point of call for any information security emergency.

We strive to:

- prepare undergraduate and graduate students to meet the challenges posed by the rapid developments in information technologies and the corresponding emergence of new and sophisticated threats and attacks on the critical information infrastructure upon which our society has come to depend;
- provide working professionals with the security skills and best practices needed to meet the workplace challenges resulting from current advances in computer technology;
- promote excellence in information security education by keeping abreast of developments in information technology and revising the curriculum accordingly;
- serve the University and the surrounding communities with leadership and distinction.

Approval Signatures

Director: _____ Director _____ Date
Department Head: Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject <input type="radio"/> Comments Attached _____ Department Head _____ Date
College Dean: Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject <input type="radio"/> Comments Attached _____ College Dean _____ Date
Provost: Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject <input type="radio"/> Comments Attached _____ Provost _____ Date
Vice Chancellor: Finance & Operations Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject <input type="radio"/> Comments Attached _____ Vice Chancellor: Finance & Operations _____ Date
Vice Chancellor for University Advancement: Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject <input type="radio"/> Comments Attached _____ Vice Chancellor for University Advancement _____ Date
Chancellor Recommendation: <input type="radio"/> Approve <input type="radio"/> Reject _____ Chancellor _____ Date

Application for the Center of Information Security and Assurance at UTC

Purpose

1) What is the purpose of the proposed center?

The tremendous growth of information technology has created challenges to society in the security and protection of information assets because advances that have been made in information security have not kept pace with advances in computing in general. Daily news reports and an unprecedented availability of information have brought dramatic computer thefts, fraud and abuse reports in our living rooms, highlighting the need for information security.

As a way to meet this urgent need, the President issued a Presidential Decision Directive 63, the Policy on Critical Infrastructure Protection in May 1998. In February 2003, the White House released *The National Strategy to Secure Cyberspace*, outlining a sustained, multi-faceted approach to safeguarding the nation's vital communications technologies. The strategy articulates five national priorities including:

- A National Cyberspace Security Response System;
- A National Cyberspace Security Threat and Vulnerability Reduction Program;
- A National Cyberspace Security Awareness and Training Program;
- Securing Governments' Cyberspace; and
- National Security and International Cyberspace Security Cooperation.

In response to these efforts, the National Security Agency (NSA) has established outreach programs like the *Centers of Excellence in Information Assurance Education (CAEIAE)* with a goal “to reduce vulnerabilities in our National Information Infrastructure by promoting higher education in information assurance, and producing a growing number of professionals in Information Assurance (IA) expertise”.

Recognizing that information security education is essential in the protection of the nation's cyberspace and its critical infrastructure, the state of Tennessee and the people in southeast Tennessee. The Department of Computer Science and Electrical Engineering is proposing the establishment of a Center of Information Security and Assurance at UTC to promote and facilitate learning, hands-on experimentation, collaborative research, and community work in issues related to information security and assurance.

2) What are the targeted goals for the service outreach?

The goals of the center are:

- promote and facilitate student and faculty learning experiences in information security and digital forensics
- Offer hands-on experimentation and experiences to our students through our computer network security lab
- conduct workshops in information security and digital forensics for the community

- encourage collaborative inter-disciplinary and multi-disciplinary research in information security and digital forensics,
- create bridges with local high schools and community colleges to increase awareness and arouse interest in information security and digital forensics.

3) How will the proposed center fulfill the University's Mission?

UTC's mission is to serve as a national model for an engaged metropolitan university whose faculty, staff, and students, in collaboration with external partners, employ the intellectual resources of the liberal arts and professional programs to enrich the lives of those UTC serves. This center will serve as a national model for an engaged metro university through promoting and facilitating student and faculty learning experiences, conducting workshops, encouraging collaborative inter-disciplinary and multi-disciplinary research, and creating bridges with local high schools and community colleges in order to increase awareness and arouse interest in information security and digital forensics. The center will fulfill UTC's stated mission.

4) How will the proposed center benefit the University?

The center will benefit the university in several ways:

- Offering the nationally critical services of information security and assurance and digital forensics to our students and the community for the region
- Preparing students for jobs in areas of critical need in federal and state agencies through anticipated CAEIAE.
- As a regional information referral center, UTC's image will be uplifted in the regional and nationally
- By hosting internationally renown scholars in information security and assurance and digital forensics, UTC will likewise be known internationally.

5) How will the proposed center benefit the affiliated faculty and staff?

The affiliated faculty and staff will greatly benefit from the center through their collaboration with renown scholars visiting the center. Also affiliated faculty will have the opportunity to visit other collaborating institutions and international conferences. As projected, the center will periodically disseminate new information. This will give the faculty a chance to publish. The CAEIAE will open new areas of grant opportunities.

6) How will the proposed center benefit the students of the University?

As the first Center of information security and assurance and digital forensics in central and eastern Tennessee, the center will greatly benefit UTC students in a variety of areas. First they will get the best training they cannot get anywhere east of the University of Memphis. Second, with the anticipated NSA granting us the status of the National Center of Excellence in Information Security and Assurance Education (CAEIAE) status, the center will qualify to apply for the National Science Foundation (NSF) capacity building scholarships for our students. Thirdly, again with the anticipated NCEISA status, our

students will be eligible to work in federal and state information-related agencies where there is a need for qualified security personnel.

7) Will the proposed center benefit others in the community?

Since this is going to be the first unit offering services in information security and assurance and digital forensics in a large area of the southeastern USA, the center is intended to be the first point of call for all information security issues in the region in areas of consulting, reporting, reference, advisory, and advocacy for all information related security incidents including attacks, viruses, worms, intrusions, and forensics cases. The community will also benefit from offered workshops and locally hosted forensic seminars and/or conferences.

8) Can the purpose of the proposed center be served in any existing unit? If so, how? If not, why not?

No – the department of Computer Science and Electrical Engineering is the only unit with qualified personnel to offer such services leading to certification by the NSA. Without NSA's certification of the center and thus granting it the National Center of Academic Excellence in Information Security and Assurance Education (CAEIAE) status, many of the anticipated benefits and opportunities would not materialize.

The department of Computer Science and Electrical Engineering intends to work with any interested unit to include them as part of the center.

9) If approved, what are the specific objectives for the proposed center for the first three years? Provide a description of the center's objectives that affords the objective-empirical assessment of performance. This three-year plan will be used in assessing the center's success and progress.

Year 1:

- Seek NSA approval of certificate curriculum
- Seek NSA granting the center the CAEIAE
- Invite external speakers
- Apply for infrastructure building grants from NSF
- promote and facilitate student and faculty learning experiences in information security and digital forensics,
- along with the department of Computer Science and Electrical Engineering, offer courses that will lead graduating students to have the necessary skills and credentials to meet the federal and state security needs.

Year 2:

- Seek funding from NSF and other agencies.
- Apply for capacity building scholarships from NSF.
- through our computer network security lab offer hands-on experimentation and experiences to our students

- encourage collaborative inter-disciplinary and multi-disciplinary research in information security and digital forensics,
- create bridges with local high schools and community colleges to increase awareness and arouse interest in information security and digital forensics
- invite external speakers
- along with the department of Computer Science and Electrical Engineering, offer courses that will lead graduating students to have the necessary skills and credentials to meet the federal and state security needs.

Year 3:

- seek funding from NSF and other agencies.
- invite external speakers
- conduct workshops in information security and digital forensics for the community
- encourage collaborative inter-disciplinary and multi-disciplinary research in information security and digital forensics,
- create bridges with local high schools and community colleges to increase awareness and arouse interest in information security and digital forensics.
- along with the department of Computer Science and Electrical Engineering, offer courses that will lead graduating students to have the necessary skills and credentials to meet the federal and state security needs.

Personnel

10) What departments and colleges will be involved in the proposed center?

Computer Science and Electrical Engineering, Business Management, Criminal Justice and Legal Assistant Studies.

11) Which faculty and staff members will be associated with the proposed center?

The current personnel that will be responsible for the Center include:

- Dr. Joseph M. Kizza – Computer Science and Electrical Engineering
- Dr. Li Yang - Computer Science and Electrical Engineering
- Ms Kathy Winters - Computer Science and Electrical Engineering
- Dr. Beni Asllani - Business Management

Support personnel include:

- Dr. Mike Ward – Academic Computing

i) Include the vitae for the participating faculty.

ii) Estimate the amount of time the faculty and staff will devote to the proposed center.

- Dr. Joseph M. Kizza – 3 hours per week
- Dr. Li Yang - will be available as needed
- Ms Kathy Winters - will be available as needed
- Dr. Beni Asllani - will be available as needed
- Dr. Mike Ward - will be available as needed

iii) Describe how faculty and staff will be granted release time for the proposed center.

The Director will need one course release time for the day to day running of the center.

12) Will any new faculty or staff be hired for the proposed center?

No.

i) Provide information regarding the job description (title, duties, qualifications, and salary range) of the new faculty or staff.

N/A

ii) Describe the funding source for faculty or staff hired as a part of this center.

N/A

Funding and Space

13) How will the proposed center be funded?

We are anticipating at the moment that the center will not need a lot of money. Any additional money needed will be sought externally.

i) Will the proposed center receive any internal (e.g., gift funds, E & G funds, UC Foundation) funding?

Yes. We are requesting the UC Foundation to fund a part time student for 20 hours a week. The student will take, answer, or refer inquiries and questions from the community.

ii) Are there in-kind or match contributions anticipated from external organizations?

No.

14) What external sources of revenue will be targeted to support the proposed center, and what indicators suggest that requests will be granted?

We are target for grants from NSF – starting with the capacity building scholarships for our students and then the infrastructure building grant from NSA. Others will be added.

15) What key university/college resources will support the proposed center’s activities?

The College of Engineering and Computer Science.

16) What is the proposed center’s operational budget and staffing plan for the first year?

i) Provide a projected budget (income and expenditures) for the first three years.

Year 1:

- Income: \$0.0
- Expenditure \$ 2000.00 part-time student.

Year 2:

- Income: some money from grants – (actual amount cannot be ascertained).
- Expenditure \$ 2000.00 part-time student

Year 3:

- Income: some money from grants – (actual amount cannot be ascertained).
- Expenditure \$ 2000.00 part-time student

17) What are the plans for continuing support beyond the first three years?

The center will go aggressively for external money right from year one and beyond. Then a budget will be made thereafter.

18) Are the library facilities adequate for the proposed center?

Yes.

19) Is there sufficient space for the proposed center? Identify all space to be used.

The center will be anchored by the High Security Network Lab in EMCS 305. But since this is a high security area, we will need an office room for the student and the director.

20) Is there equipment and facilities available for the conduct of the center’s activities? Identify the equipment and facilities to be used or acquired.

All the equipment and space needed are in EMCS 305. We have a full complex and high security computer network lab. In addition to the network faculty lab, we have a high end laboratory for any work in digital forensics. We do have the most modern software and equipment for digital forensics investigation in the region.

In addition to these we may need one office desk, two chairs and a bookshelf.

External Collaborations

21) What external publics will benefit from the creation of the proposed center?

The regional business and education community will greatly benefit from the center.

22) What potential exists for collaborations between the proposed center and agencies outside the University?

We have made arrangement for collaboration with the University of Memphis Center for Information Security and Assurance. We are actively collaborating with these other schools and federal agencies:

- Polytechnic University of New York
- Kennesaw State University – Georgia.
- National Security Agency (NSA)
- Chattanooga State Community and Technical College
- Some Hamilton County High Schools like Soddy Daisy and Tyner.

23) If appropriate, identify the specific individuals who will provide technical assistance from external organizations?

- Dr. Nasir Memon - Polytechnic University of New York - NY
- Dr. Dipinkar Dasgupta – University of Memphis. – TN
- Dr. S. Srinivasan – University of Louisville, - KY

24) Is there a potential conflict and/or competition? between the operation of the proposed center and private enterprise entities? If so, review how the conflict will be resolved.

There is none we know of.

Management and Evaluation

25) What is the management plan of the proposed center? Provide an organizational chart.

The Center will have a Director and Deputy Director. No additional funding is sought for these individuals. In addition to these permanent personnel, the center will also use student volunteers and where funding is available, paid student workers.

26) To whom will the center's director report, if not the Provost?

Computer Science and Electrical Engineering Head.

27) Describe the center's advisory committee. Describe its role in steering the work of the center and its constituency, specifically inclusion of committee members internal and external to the University.

The committee has not yet been formed. We anticipate to invite individuals from business, law, and law enforcement to join the committee once formed.

28) How often, and in what form, will the director report on the center's progress?

The Director will report once a year in a form of detailed report of accomplishments.

29) What internal evaluation plan will be used to determine the success of the proposed center? See Item 9 and review a) self-assessment processes to be used, b) Identify expected outcomes/benchmarks/standards that will be used to measure and assess the center's efficiency and effectiveness.

EDO rating for the director. Since there is no staff, there will be no need for assessment. All other faculty in the center will be assessed in their respective departments and units.

Also through NSA certification and re-certification procedures, NSA provides benchmarks to follow.

30) How will the director's performance be reviewed and evaluated?

Director's review will be based on EDO.

References

31) Provide the names and contact information of three experts in the field who are not associated with the University who can provide an informed evaluation of the proposal.

- Dr. Dipinkar Dasgupta – University of Memphis. Contacts: dasgupta@memphis.edu
- Dr. Nasir Memon - Polytechnic University of New York. Contacts: memon@poly.edu
- Dr. S. Srinivasan – University of Louisville, - KY. srini@louisville.edu