Segmentation of Objects from Volumetric CT Data
Funding Agency: Northeastern University, co-lead of the ALERT DHS Center of Excellence
Due: 1/7/2011
Link: [http://www.northeastern.edu/alert/research/project/](http://www.northeastern.edu/alert/research/project/)

This project will be led by Northeastern University, co-lead of the ALERT DHS Center of Excellence ([www.neu.edu/alert](http://www.neu.edu/alert)) in conjunction with the Department of Homeland Security (DHS). This project has been initiated as part of a strategic objective of the Explosives Division of the Science and Technology Directorate of DHS, which is interested in improving the performance of volumetric CT scanning equipment used to detect explosive threats in checked and carry-on baggage brought onboard airplanes. The performance of threat detection of this equipment may be improved if the accuracy of the outputs of segmentation is improved. DHS wants to augment the capabilities and capacities of the incumbent vendors of security equipment with the participation of people like you - researchers from academia and industry other than the incumbent vendors, who can improve the security equipment performance. Participation in this project will enable you to tap directly into this environment, which includes access to security image datasets including labeled volumetric CT data.

Faculty Large Grant Competition (Amounts greater than $1,500)
Funding Agency: Vice President for Research and the Research Advisory Council
Due: 2/2/2011
Link: [http://research.uconn.edu/ips/lrge_sml_grants.php](http://research.uconn.edu/ips/lrge_sml_grants.php)

To assist faculty in all disciplines to better position them to apply for and receive extramural funding for their research and scholarly activities. Recipients of awards are expected to be actively engaged in submitting proposals to extramural sponsors. The applicant's record of extramural funding and relevant scholarly productivity will be considered as factors in judging the applicant's qualifications. Applicants for second (and subsequent) awards must provide a clear statement of how the previous award was used, and what was produced, e.g., extramural grant(s), publication(s), etc. Generally, only one award per PI, will be granted in a given fiscal year and no more than two awards made during a five year period. In addition, an individual may be the PI on no more than one proposal per cycle. The program’s primary objective is to fund proposals of high scholarly merit. It encourages proposals for research projects in all areas, and for a wide variety of purposes, but is especially interested in funding “pilot” or “seed money” grants, including proposals from newly-appointed faculty members who need initial support to begin a research program at the University; and proposals from established investigators who wish to change research direction or obtain pilot data. The program also supports sabbatical leave proposals and proposals for “bridge” funding where previous support has not been renewed, where application for renewal or for alternative extramural funding has been filed, and where lack of funds would seriously hamper the established research project. Proposals are peer reviewed within disciplinary review panels and supplemented by ad hoc reviewers when additional expertise is needed.

DHS HS-STEM Career Development Grants (CDG) for Post Secondary Institutions
The Department of Homeland Security (DHS), Science and Technology Directorate (S&T), Office of University Programs (UP) is announcing the fifth annual competition for the Homeland Security Science Technology Engineering and Mathematics (HS-STEM) Career Development Grants (CDG). The CDG program enables U.S. accredited four-year colleges and universities with existing and/or proposed programs in homeland security-related science, technology, engineering or mathematics to award undergraduate scholarships and/or graduate fellowships to qualified students (refer to Section IV.C.5.c.ii) who intend to pursue homeland security scientific, technology, engineering, or mathematic careers. DHS S&T invites applications to this program from U.S. accredited four-year colleges and universities with HS-STEM curricula. Note: HS-STEM curricula are homeland security specific programs of study or concentrations within existing and/or proposed science, technology, engineering, or mathematics programs. These curricula may lead to majors, minors, certificates, or recognized concentrations in HS-STEM. DHS will support only those homeland security programs that are based on existing and/or proposed accredited science, technology, engineering, or mathematics curricula. As part of the mission, DHS S&T is responsible for providing U.S. leadership in homeland security related science and technology to protect the Nation from terrorist threats and the consequences of natural disasters. The CDG program attempts to create early and ongoing synergies between the homeland security professional and scientific communities and students studying in HS-STEM fields at the U.S. accredited four-year colleges and universities, and to ensure a steady flow of homeland security researchers and practitioners for the future.

Prepared By: UConn SoE - Research Initiatives Support Team (RIST)

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Please share any solicitations you would like included in the next bulletin with amys@engr.uconn.edu.