Students launching computer 'attacks' to bolster information security

Students at SUNY Oswego and two other colleges will launch computer attacks in a virtual environment in a project designed to improve information security in the real world.

SUNY Oswego, Iowa State and Oberlin College are collaborating to create and test a virtual security platform, and impart resulting lessons to other colleges, under a National Science Foundation Institutional Development grant.

Oswego will receive $60,000 of the funding over a two-year period mainly to pay students to develop and test the platform and lessons, said James Early, who is coordinating Oswego’s part of the project.

The project involves scalable virtual machine laboratory systems—virtual systems and computers recreated within an actual computer—and exercises where students attack and defend those systems.

“Once we develop these virtual machines and virtual networks, we can launch attacks on them,” said Early, an assistant professor of computer science. “We can use this virtual lab and platform to see how machines can attack one another, how computers can be affected, how to mitigate attacks. While this would damage real networks and computers, at the end of the exercise, we can press a button and everything will be like they were before.”

The work aims to stem such dangerous invasions as spyware that can lead to identity theft, as well as more common viruses, worms and denial of service attacks.

“Unfortunately, attackers have figured out a way to do these things. What we’re trying to do is stay one step ahead of them,” said Early, who is developing Oswego’s first information security course.

Early compared it to “an arms race” where “we’re constantly trying to figure out where vulnerabilities exist in the system, why they are there, how to mitigate their impact.”

The project also will develop faculty workshops and an information-security curriculum and make them available to colleges everywhere so students entering the computer science field can avoid mistakes and vulnerabilities that endanger networks and users, he said. “Society is putting a lot of trust in us to do it right, and we could do more to be worthy of that trust,” Early added.

The grant will fund workshops at SUNY Oswego to bring in educators from around New York and surrounding states, Early said.

“The platform is one we want to make freely available because every computer science student needs to have some exposure to this,” he noted. The hope is to share the project with other educa-

(Continued on page 9)
Campus News— Helen Bohmer Daly Memorial Research Grants for Students

The Helen Bohmer Daly Memorial Research Fund was established to support and foster basic behavioral research by SUNY Oswego faculty, staff and students working in collaboration with a faculty sponsor. In keeping with Dr. Helen Daly's decided preference for the control, precision, and internal validity inherent in well designed and carefully executed experiments, proposals for laboratory-bound investigations will have higher priority in funding decisions. However, in recognition of the growing importance of research conducted in natural settings, funding may be made available to projects that do not lend themselves to laboratory investigation.

Eligibility:
1. This award is available to college students in their sophomore or junior year at the State University of New York at Oswego. As more funds become available, a separate award will be offered to faculty and staff. Sizes and number of awards will be determined by Scholarly and Creative Activities Committee based on amount of money available and the quality of applications.
2. Projects must focus on basic behavioral research.
3. Priority will be given to projects which employ an experimental design
4. Although priority will also be given to research performed in a laboratory setting, proposals will be considered for behavioral research conducted in natural settings.

Any Student Scholarly and Creative Activity Grant proposal that also meets the criteria for the Helen Bohmer Daly Memorial Research Grant will also be considered under these criteria.

Questions:
If you have questions contact: Leigh.Bacher@oswego.edu or Kamal.Mohamed@oswego.edu

Your students can find complete guidelines on the ORSP website www.oswego.edu/studentgrants

Deadline: Annually the first Monday in November at 4:30 p.m.

Campus Grants & Awards Timeline

For information and application materials for campus grants, visit our web site http://www.oswego.edu/administration/ORSP/index.html and look under Campus Grants & Awards.

<table>
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<th>PROGRAM</th>
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| FACULTY—Scholarly & Creative Activity Grants | Fourth Monday in October
| | Second Monday in February |
| STUDENTS—Scholarly & Creative Activity Grants | First Monday in November |
| FACULTY—President’s Award for Scholarly & Creativity and Research | January 31, annually |
| FACULTY—Provost’s Award for Scholarly & Creativity and Research | January 31, annually |
| FACULTY & STUDENTS—Student/Faculty Collaborative Challenge Grants | Second Monday in February |
| FACULTY—Curriculum Innovation Grants | First Monday in March |
About—Lorie Robert

NAME: Lorie Robert

TITLE: Secretary

HOW WOULD YOU DESCRIBE YOUR JOB AND RESPONSIBILITIES? I am on the Post-Award side of a grant. Once a grant has been awarded, I handle the requisitions, Purchase Orders, Accounts Payable/ Receivable, Payroll, and some HR duties.

WHAT IS YOUR FAVORITE PART OF WORKING AT OSWEGO? I love working on a Campus setting and all that the College has to offer. I enjoy getting out for a walk over my lunch hour, or going to the gym, and seeing the diversity of students enrolled at the College. My son is enrolled at the Children’s Center which is another wonderful perk of being employed here.

WHAT ACHIEVEMENT ARE YOU MOST PROUD OF? Getting my Bachelors Degree from SUNY Cortland, running a marathon, being employed at SUNY Oswego, and most importantly, my beautiful family.

DO YOU HAVE ANY HOBBIES? I love the outdoors—camping, gardening, exercising. I also enjoy doing crafts and working on house projects.

WHAT CAN YOU TELL US ABOUT YOUR FAMILY? I have been with my husband Patrick for 8 years, married for 3. He is an Electrician with Novelis Inc. in Oswego. We have a black lab dog named Bailey, a beautiful son Carter, who is 20 months old, and another child on the way (due 11/25). We reside in Mexico, NY where my husband grew up.

NAME: Lorie Robert
TITLE: Secretary
HOW LONG HAVE YOU BEEN AT OSWEGO? I have been employed by the Research Foundation of SUNY for 6 years.

Upcoming Workshops

There is only one workshop left this semester.

Budgets

Place: Room 123, Penfield Library
Time: Noon to 1:00 p.m.
Date: Thursday, November 12, 2009

You are welcome to stop in the Office of Research and Sponsored Programs at any time to discuss your ideas and have your questions answered.
ARTS

Art Alliance for Contemporary Glass, Grants Program [94024]
Deadline: 03/01/10
Synopsis: The mission of the sponsor is to further the development and appreciation of art made from glass. Grants are made to arts organizations in support of specific educational purpose, with preference given for grants in which the focus is education of the public (as opposed to education of artists, curators, etc.).
Objectives: Typically, the sponsor’s grants support exhibitions, catalogs, brochures, videos, curatorial stipends, and residencies for visiting artists.

Women’s Film Preservation Fund
Deadline: 11/30/09
Synopsis: The Women’s Film Preservation Fund, founded by New York Women in Film & Television, seeks proposals for the preservation or restoration of American films, from any era, in which women have held significant creative positions, including, but not limited to, writer, director, producer, editor and performer.

Aaron Copland Fund for Music, Recording Program
Deadline: 01/15/10
Objectives: To document and provide wider exposure for the music of contemporary American composers; To develop audiences for contemporary American music through distribution of recorded performances in physical and online media; To support the production of new recordings of contemporary American music and the reissuance of recordings that are no longer available.

Corning Museum of Glass, Rakow Grant for Glass Research
Deadline: 02/01/10
Synopsis: Grants may be used to cover travel, living expenses, or other expenses necessary to conduct the research or to publish it. Awards will be based on the merit of the projects proposed, the nature and extent of the contributions to glass studies, and an evaluation of the ability of the applicant to accomplish the goals as stated.
Objectives: Individuals and institutions may apply. There are no national residency requirements, and the results of the research may be reported in any language, but preference may be given to projects which will bring researchers to Corning to study the Museum’s collections or to use its Library. Preference will be given to projects which will be completed with the funding available, rather than to projects which will only be advanced by this grant.
Projects which are a portion of a larger program, and which are already being funded by others, are unlikely to receive the award.

Mockingbird Foundation, Grants Program [84013]
Deadline: 02/01/10
Synopsis: The sponsor offers competitive grants to schools and nonprofit organizations that effect improvements in the area of music education for children.
Objectives: Funding is provided for schools and nonprofit organizations in the following areas:
Music: The sponsor is particularly interested in projects that encourage and foster creative expression in any musical form (including composition, instrumentation, vocalization, or improvisation), but also recognizes broader and more basic needs within conventional instruction. Applications associated with diverse or unusual musical styles, genres, forms, and philosophies are encouraged.
Education: This program may include the provision of instruments, texts, and office materials and the support of learning space, practice space, performance space, and instructors/instruction. The sponsor is particularly interested in projects that foster self-esteem and free expression, but does not typically fund music therapy which is not education or music appreciation which does not include participation.
Children: The sponsor is interested in targeting children eighteen years or younger, but will consider projects benefiting college students, teachers, instructors, or adult students. Of particular interest are programs which benefit disenfranchised groups, including those with low skill levels, income, or education; with disabilities or terminal illnesses; and in foster homes, shelters, hospitals, prisons, or other remote or isolated situations.

Alligator Juniper, National Photography Contest [69333]
Deadline: 12/01/09
Synopsis: The sponsor awards one prize of $500 for a black and white photograph. Other winners selected for publication are paid in copies.
Objectives: The sponsor provides an award for the best black and white photograph.

Graham (Elizabeth Firestone) Foundation, Grants Program [48257]
Deadline: 03/15/10
Synopsis: Support is provided to foster awareness and appreciation of contemporary visual art, particularly through catalogues and other publications that document art produced by emerging or under-recognized artists. Grant amounts typically range from $5,000 to $20,000.
Objectives: The sponsor is interested in projects that attempt to bring together artists and the community, support artists from marginalized populations, and provide exposure to contemporary art where it may not otherwise be seen. Funding is available for: exhibition catalogues and brochures, publications related to the grantee organization and its programs or collections, exhibitions and installations (on- or off-site), visiting artist programs, and film projects in their final completion phase.

COMMUNITY
An Eye on Funding (continued from page 4)

American Association of University Women Educational Foundation, Community Action Grants [00612]
Deadline: 01/15/10
Synopsis: The sponsor provides seed money to individual women, AAUW branches, AAUW state organizations, and community-based nonprofit organizations. Grants ranging from $2,000 to $10,000 are available for one or two years.
Objectives: One-year grants provide seed money for new projects. Topic areas are unrestricted, but should include a clearly defined activity that promotes education and equity for women and girls. Two-year grants provide start-up funds for longer-term programs that address the particular needs of the community and develop girls’ sense of efficacy through leadership or advocacy opportunities. Topic areas are unrestricted, but should include a clearly defined activity that promotes education and equity for women and girls.

EDUCATION

American Honda Foundation, Grants Program [09372]
Deadline: 02/01/10, 05/01/10
Synopsis: The sponsor provides grant support for projects in the areas of youth and scientific education. Average grants range from $20,000 to $60,000 per year.
Objectives: Programs related to youth and scientific education should be: dedicated to improving the human condition of all mankind; soundly managed and administered by enthusiastic and dedicated individuals who approach their jobs in a youthful way; look to the future or foresightful programs; and innovative and creative programs that propose untried methods which ultimately may result in providing solutions to the complex cultural, educational, scientific and social concerns currently facing the American society. The sponsor defines "youth" as prenatal through 21 years of age.

"Scientific education" encompasses both the physical and life sciences, mathematics and the environmental sciences.

Kazanjian (Calvin K.) Economics Foundation, Inc., Grants Program [54697]
Deadline: 02/15/10
Synopsis: Support is provided to nonprofit organizations for proposals and projects with national impact having to do with economic education research.
Objectives: While the sponsor has a vital interest in the overall efforts to increase economic literacy, the Board of Trustees will give special attention to proposals and projects with national impact that address the following issues: Programs that raise various public’s participation in economic education and/or create a demand for greater economic literacy; The application of new strategies for teaching economics including on-line and web-based instruction; Projects, policy studies, or programs that encourage measurement of economic understanding more often and/or more effectively; and Programs that help otherwise disenfranchised youth and/or young adults with children learn to participate in the economic system.

Sun Microsystems, Inc., Academic Excellence Grant Program [61268]
Deadline: 02/26/10, 05/31/10
Synopsis: The sponsor grants equipment to eligible organizations who have developed creative projects that address the sponsor's investment priorities and create partnerships for success. The primary investment priorities are higher education and kindergarten through twelve education.
Objectives: Grants are awarded under the following priorities:
Higher Education: including the teaching of SUN technologies, web-based learning, scientific and engineering computing, and business collaborations.
Primary and Secondary (K-12) Education: including primary and secondary education and university outreach.
Funding for grants focus on areas such as: Curriculum Integration; Community Development; Localization; Community Outreach; Java Software Development; Application Development; and Thin Client.

HUMANITIES

NEH, America’s Historical and Cultural Organizations Implementation Grants [94862]
Deadline: 01/13/09
Synopsis: America’s Historical and Cultural Organizations implementation grants support traveling or long-term museum exhibitions, library-based projects, interpretation of historic places or areas, interpretive Web sites, or other project formats that creatively engage audiences in exploring humanities ideas and questions.
Objectives: All projects should: build on sound humanities scholarship; deepen public understanding of significant humanities questions; involve humanities scholars in all phases of development and implementation; appeal to broad audiences; approach the subject analytically and interpretively through an appropriate variety of perspectives; and employ appealing and accessible program formats that will actively engage the general public in learning.
Grant funds can support all typical activities connected with project implementation and production, including: final consultation with scholars or other advisers; final exhibition design and fabrication, as well as crating and shipping; Web site development; completion of interactive program components; publication costs for complementary materials, including catalogues and curriculum guides; publicity expenses; staff training specifically for the project’s interpretive programs; development of teachers’ guides and curriculum materials; presentation and distribution of public programs and related materials; and audience evaluation.
An Eye on Funding (Continued from page 5)

American Foundation, Grants Program [83763]
Deadline: 01/10/10, 04/10/10
Synopsis: The sponsor offers support to nonprofit 501(c)(3) organizations for education and advocacy programs that address the preservation of American agriculture, the conservation of natural resources, and the protection and preservation of expressions of America’s heritage.

Objectives: The sponsor focuses on two program areas of protection, preservation and education:
American Heritage--the sponsor supports projects and programs that educate and advocate for the preservation of this diverse American heritage and that preserve, conserve and present this material culture in a manner that will help all people discover, understand and appreciate this American heritage. The sponsor will support: programs and restoration projects that exhibit classic material artifacts and provide information on the common values of freedom for the individual, and the creative pioneer spirit which fostered the innovation and industriousness that built the nation; the production of publications, exhibits, electronic and film based media and symposia that contribute to a better understanding of American and American heritage; and the acquisition and preservation of high quality, classic examples of American furniture and the decorative arts, and other representations of material culture.

Agriculture and Natural Resources--the sponsor will consider requests for projects containing one or more of the following: the maintenance of historical buildings and grounds at the Tollgate Farm and support for agricultural education programs conducted on this site; education and advocacy for the protection of agriculture, open space and natural resources; basic education and information in regard to tools for managing growth and preventing sprawl through integrated planning and zoning; and partnerships of environmental and agricultural organizations with other stakeholder groups working to protect agriculture, open space and natural resources.
The sponsor’s third program area is Tollgate Farm. Support is provided for the maintenance of the historical buildings and grounds at the Tollgate Farm as well as educational programs conducted on site.

NEH, America’s Historical and Cultural Organizations Planning Grants [93167]
Deadline: 01/13/10
Synopsis: America’s Historical and Cultural Organizations grants support traveling or long-term museum exhibitions, library-based projects, interpretation of historic places or areas, interpretive Web sites, or other project formats that creatively engage audiences in exploring humanities ideas and questions.

Objectives: America’s Historical and Cultural Organizations grants support traveling or long-term museum exhibitions, library-based projects, interpretation of historic places or areas, interpretive Web sites, or other project formats that creatively engage audiences in exploring humanities ideas and questions. Planning grants can be used to plan, refine, and develop the content and interpretive approach of a project. Applicants should have already begun consulting with scholars to help shape the humanities content of the project, and with other programming advisers appropriate to the project’s format. Applications for panel exhibitions are accepted only from organizations other than museums, such as libraries or library systems. Panel exhibitions must travel beyond a single site and must also incorporate at least one other program format. Applications that make innovative use of emerging technologies are encouraged. Projects should do more than simply provide a digital archive of material. They should offer new ways of contextualizing and interpreting information that engages public audiences interactively in exploring humanities ideas and questions. Applications may, for example, include plans to create Web sites, PDA tours and resources, podcasts, virtual environments, wiki formats or others that utilize user-generated content, virtual imaging, GIS mapping, online scholarly discussions, video on demand, streaming video, games, or other digital components. Digital components should rest on sound humanities scholarship and enhance the project’s humanities content for the general public in ways that take unique advantage of the chosen technology. Support is also available to expand previously funded NEH projects through the addition of new, complementary formats: for example, developing a series of reading and discussion programs around an exhibition or film, or using digital formats to add new interpretive dimensions to a project. The new formats should complement and expand the project’s original humanities content in a manner that will help all people discover, understand and appreciate this American heritage.

INTERDISCIPLINARY

NSF, Political Science [61372]
Deadline: 01/15/10
Synopsis: The Political Science Program supports scientific research that advances knowledge and understanding of citizenship, government, and politics.

Objectives: Research proposals are expected to be theoretically motivated, conceptually precise, methodologically...
An Eye on Funding (Continued from page 6)

rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions.

In recent years, program awards have supported research projects on bargaining processes; campaigns and elections, electoral choice, and electoral systems; citizen support in emerging and established democracies; democratization, political change, and regime transitions; domestic and international conflict; international political economy; party activism; political psychology and political tolerance. The Program also has supported research experiences for undergraduate students and infrastructural activities, including methodological innovations, in the discipline.

**NSF, Developmental and Learning Sciences [63399]**
**Deadline:** 01/15/10
**Synopsis:** DLS supports fundamental research that increases our understanding of cognitive, linguistic, social, cultural, and biological processes related to children's and adolescents' development and learning. Research supported by this program will add to our basic knowledge of how people learn and the underlying developmental processes that support learning, with the objective of leading to better educated children and adolescents who grow up to take productive roles as workers and as citizens.

**Objectives:** Among the many research topics supported by DLS are: developmental cognitive neuroscience; development of higher-order cognitive processes; transfer of knowledge from one domain or situation to another; use of molecular genetics to study continuities and discontinuities in development; development of peer relations and family interactions; multiple influences on development, including the impact of family, school, community, social institutions, and the media; adolescents' preparation for entry into the workforce; cross-cultural research on development and learning; and the role of cultural influences and demographic characteristics on development. Additional priorities include research that: incorporates multidisciplinary, multifaceted, microgenetic, and longitudinal approaches; develops new methods, models, and theories for studying learning and development; and integrates different processes (e.g., learning, memory, emotion), levels of analysis (e.g., behavioral, social, neural), and time scales (e.g., infancy, middle childhood, adolescence).

**National Academic Advising Association, Research Grants [66444]**
**Deadline:** 03/15/10
**Synopsis:** Support is provided for proposals contributing to the field of advising-related research. Practicing professionals (administrators and faculty) as well as graduate students seeking support for dissertation research are eligible. Grant awards can be up to $5,000.

**Objectives:** The sponsor is interested in proposals which document the outcomes of different advising models. In addition, the sponsor encourages submissions concerned with developing, conducting, and reporting of: empirical studies; evaluation or analysis of advising practices, models or systems; development, evaluation or analysis of advising-based theory; studies of the history, evolution and future of the field; empirical research related to the advising process (inter- and intra-personal dimensions); and qualitative research on advising practices.

**NSF, Economics [70160]**
**Deadline:** 01/18/10
**Synopsis:** The sponsor supports research designed to improve the understanding of the processes and institutions of the US economy and of the world system of which it is a part.

**Objectives:** This program strengthens both empirical and theoretical economic analysis as well as the methods for rigorous research on economic behavior. It supports research in almost every area of economics, including econometrics, economic history, environmental economics, finance, industrial organization, international economics, labor economics, macroeconomics, mathematical economics and public finance.

The sponsor welcomes proposals for individual or multi-investigator research projects, doctoral dissertation improvement awards, conferences, workshops, symposia, experimental research, data collection and dissemination, computer equipment and other instrumentation, and research experiences for undergraduates. The program places a high priority on interdisciplinary research. The program also funds conferences and interdisciplinary research that strengthens links among economics and the other social and behavioral sciences as well as mathematics and statistics.

**SCIENCES**

**NSF, Physical Anthropology [61319]**
**Deadline:** 01/20/10
**Synopsis:** The Physical Anthropology Program supports basic research in areas related to human evolution and contemporary human biological variation. Research areas supported by the program include, but are not limited to, human genetic variation, human adaptation, human osteology and bone biology, human and nonhuman primate paleontology, functional anatomy, and primate socioecology.

**Objectives:** Research areas supported by the program include, but are not limited to, human genetic variation, human adaptation, human osteology and bone biology, human and nonhuman primate paleontology, functional anatomy, and primate socioecology. Grants supported in these areas are united by an underlying evolutionary framework, and often a consideration of adaptation as a central theoretical theme. Many proposals also have a biocultural orientation. The program
Eye on Funding (Continued from page 7)

frequently serves as a bridge within NSF between the social and behavioral sciences and the natural and physical sciences, and proposals are commonly jointly reviewed and funded with other programs.

**NSF, Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences [73519]**

**Deadline:** 02/11/10

**Synopsis:** The sponsor provides support for projects designed to enhance undergraduate education and training at the intersection of the biological and mathematical sciences and to better prepare undergraduate biology or mathematics students to pursue graduate study and careers in fields that integrate the mathematical and biological sciences.

**Objectives:** The sponsor provides opportunities for funding of undergraduate education and training efforts that integrate the biological sciences and mathematical sciences. Such efforts are expected to: be grounded in research activities involving both mathematical and biological sciences; connect to regular academic studies, influencing the direction of academic programs for a broad range of students; involve students from both areas in significant research experiences that connect to research at the intersection of the disciplines; and show commitment to joint mentorship by faculty in both fields. Projects should contribute substantially to an enhanced and sustainable undergraduate educational enterprise that strengthens mathematical training or education for those students studying biology and interdisciplinary training for those studying mathematics.

**NSF, Plant Genome Research Program [37648]**

**Deadline:** 01/26/10

**Synopsis:** The sponsor announces its intention to continue to support plant genome research through the Plant Genome Research Program. The estimated number of awards is 15-25, pending availability of funds.

**Objectives:** Four areas of opportunity will be offered as components of the PGRP in Fiscal Year 2010: Genome-Enabled Plant Research (GEPR) awards to tackle major unanswered questions in plant biology on a genome-wide scale; Transferring Research from Model Systems (TRMS) awards to transfer findings made using model systems to plants of economic importance; Tools and Resources for Plant Genome Research (TRPGR) awards to support development of novel tools to enable discovery in plant biology and Comparative Plant Genome Sequencing (CPGS) awards to develop sequence resources to enable research on economically important crops plants and plant processes of potential economic importance. Genome-Enabled Plant Research (GEPR): The program is evolving by increasing use of the new tools and resources that have become available through the NPGI. While there still remain some large community resources to be built, those available now are sufficient to begin to address major unanswered questions in plant biology, some of which have not been tractable using traditional approaches alone. To be eligible, projects should be developed on a whole genome, whole organelle or whole network scale. In FY 2010, proposals are especially encouraged in the following areas: Improved tools for sequence assembly and analysis, especially to enable effective use of sequence data produced by next-generation machines; Improved annotation tools for plant genomes; Novel methodologies for high throughput plant phenotyping, especially under field conditions; and Improved visualization tools.

Comparative Plant Genome Sequencing (CPGS): The goal of this opportunity is to support the development of genome sequence resources that would contribute to a conceptual framework for the interpretation of the structure, function and evolution of genomes of economically important plants. Projects are solicited that focus on a biological question that is enabled by the proposed sequence resources and was unanswered with existing resources. Proposers must provide clear justification for the plant or plants selected and the type of resource to be generated. Proposers are expected to take advantage of next-generation sequencing technologies where appropriate. The sequencing approach chosen as well as the type of resource to be developed should be clearly justified. Sequencing targets should enable researchers to answer specific biological questions relevant to the goals of the PGRP and may include, but are not limited to: Key nodes or groups of plants in the
Objectives: OISE supports international research and education experience for U.S. scientists early in their careers. This solicitation describes opportunities for two such activities: International Research Experiences for Students (IRES)-- IRES aims to provide high quality educational experiences for small groups of U.S. undergraduate and/or graduate students through active research participation in collaboration with foreign researchers at an international site. IRES will help prepare a globally-engaged science and technology workforce by providing students with international collaborative research training and a personal network on which to build future collaborations. IRES proposals must have a unifying research theme that encourages communication among influential policymakers, practitioners, scholars and members of the media.

Objectives: The sponsor supports research on perception, action and cognition including the development of these capacities. Emphasis is on research strongly grounded in theory. Research topics include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, motor control and developmental issues in all topic areas. The program encompasses a wide range of theoretical perspectives, such as symbolic computation, connectionism, ecological, nonlinear dynamics, complex systems and a variety of methodologies including both experimental studies and modeling. Research involving acquired or developmental deficits is appropriate if the results speak to basic issues of perception, action and cognition.

Grant (William T.) Foundation, Investigator Initiated Grants [09020]
Deadline: 01/04/10

Synopsis: The sponsor provides support for research on how contexts such as families and programs affect youth, how these contexts can be improved, and how scientific evidence affects influential adults. It also funds various capacity-building activities to develop the infrastructure necessary to do this work. The sponsor also funds activities that encourage communication among influential policymakers, practitioners, scholars and members of the media.

Objectives: The sponsor's grantmaking is for research, program evaluation studies, policy analysis studies, communications/dissemination and capacity building which will improve the lives of young people ages eight to twenty-five. The sponsor's current research priorities are: Address issues that have compelling relevance for theory, policy, and/or practice affecting the settings of youth ages 8 to 25 in the U.S.; and reflect high standards of evidence and rigorous methods, commensurate with the project's goals.

The Developing Global Scientists and Engineers [79930]
Deadline: 02/15/10

Synopsis: The Developing Global Scientists and Engineers program provides highest quality international research experiences for U.S. students.

Objectives: OISE supports international research and education experience for U.S. scientists early in their careers. This solicitation describes opportunities for two such activities: International Research Experiences for Students (IRES)-- IRES aims to provide high quality educational experiences for small groups of U.S. undergraduate and/or graduate students through active research participation in collaboration with foreign researchers at an international site. IRES will help prepare a globally-engaged science and technology workforce by providing students with international collaborative research training and a personal network on which to build future collaborations. IRES proposals must have a unifying research theme that enables a cohort experience for participating students.

Doctoral Dissertation Enhancement Projects (DDEP)-- OISE supports dissertation research conducted by graduate students at a foreign site. Students are expected to work in close cooperation with a host country institution and investigator.

SOCIAL / BEHAVIORAL

NSF, Perception, Action and Cognition [61300]
Deadline: 02/01/10

Synopsis: Support is provided for research in perception, action and cognition.

Objectives: The sponsor supports research on perception, action and cognition including the development of these capacities. Emphasis is on research strongly grounded in theory. Research topics include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, motor control and developmental issues in all topic areas. The program encompasses a wide range of theoretical perspectives, such as symbolic computation, connectionism, ecological, nonlinear dynamics, complex systems and a variety of methodologies including both experimental studies and modeling. Research involving acquired or developmental deficits is appropriate if the results speak to basic issues of perception, action and cognition.

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Oswego students will become a “barometer of what students can accomplish in a given semester, how we can best organize information to maximize development” of the curriculum, Early said. “We’ll have the more technically advanced students setting up the platform, running programs, planning attacks and planning defense to mitigate attacks.”

That work and the resulting dissemination is “something that’s going to have an important impact beyond the campuses involved,” Early said. “Hundreds, maybe thousands of computer science students across the United States will learn what can happen when steps are not taken, but also how to take preventative steps in the first place.”

PHOTO CAPTION: Security measures—James Early, right, of SUNY Oswego’s computer science department will coordinate the local part in a three-college project on information security. Students at Iowa State, Oberlin College and Oswego will develop virtual computing systems, then attack and defend them to learn more about vulnerabilities in real networks. Early is shown talking to senior computer science major Ryan Mann in Snygg Hall on campus.

CONTACT: James Early, 312-3195, earlyjp@cs.oswego.edu

Posted: October 15, 2008, Campus News
The Office of Research and Sponsored Programs (ORSP) is responsible for the development, coordination and financial management of all contracts and grants at the College. All externally sponsored projects for research, scholarly / creative activity, curriculum development or services utilizing SUNY Oswego facilities and / or personnel must be processed and administered through ORSP.

A project is externally sponsored if a grant or contract is awarded to the College in support of a specific activity. For example, external sponsors consist of federal and state agencies, private foundations, business and industrial enterprises, local and state governments and professional organizations. Sponsored projects include, but are not limited to, research, conferences, curriculum development, workshops, meetings, special events and scholarly and creative activities.

ORSP Pre-Award Services Available

1) Maintain a faculty/staff profile of research and special projects interests
2) Match faculty/staff projects with potential sponsors
3) Notify faculty/staff of funding opportunities appropriate to their interests
4) Maintain a current resource collection of funding sources
5) Obtain guidelines and application forms
6) Assist with interpret guidelines and preparation of agency forms
7) Provide technical and editorial critique of proposals
8) Discuss budget categories and provide assistance with the development of an appropriate inclusive budget
9) Assist with the development of competitive proposals
10) Submit assurance reports and policies to maintain an approved institutional animal care and use committee and human subject committee in compliance with state and federal procedures
11) Review of final application
12) Obtain administrative approvals

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