

Funding Opportunities

THE INDIANA CLINICAL AND TRANSLATIONAL SCIENCES INSTITUTE (CTSI) - has released its request for applications for the 2010 Collaboration in Biomedical/Translational Research (CBR/CTR) Grant Program. A summary of the program and the application can be accessed at: http://www.indianactsi.org/funding/cbrctr. In addition to the guidelines presented in the application, Purdue applicants will need to observe instructions as noted below -- SIGNATURES - The application requires the signatures of the applicant/collaborator, department head, college or school dean, and the institutional official (Al Rebar). Please note that all signatures EXCEPT the institutional official must be obtained prior to submission. This is different than previous years when all signatures had to be obtained before submission. While most signatures can be obtained in electronic format, the institutional official’s signature must be hand written. This signature requirement will be coordinated with CTSI after submission. FORMS - Transmittal check sheets and COEUS budgets should not be included with these proposals. These proposals are not processed through Sponsored Program Services so this information is not needed. SUBMISSION - The OVPR does not submit CBR/CTR applications. The PI or his/her business office is responsible for ensuring the timely submission of an application. Please leave sufficient time to gather all required signatures prior to the March 1, 5 P.M. deadline.

THE BURTON D. MORGAN CENTER FOR ENTREPRENEURSHIP - is pleased to announce an expanded program to encourage and support commercialization of Purdue research. This year’s program includes an opportunity for doctoral students as well as postdoctoral applicants. The PREPP Postdoctoral Fellows will receive a $40,000 plus associated fringe benefits. The PREPP Doctoral Fellows will receive a quarter-time assistantship at $10,000 plus associated fringe benefits and fee remits. The deadline for applications will be Friday, April 2, 2010. For additional information contact Jackie Lanter via e-mail lanter@purdue.edu.
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Deadline: March 31. The National Institute of Environmental Health Sciences (NIEHS) invites applications from qualified institutions for support of Environmental Health Sciences (EHS) Core Centers. These Centers are designed to establish innovative programs of excellence in the field of environmental health sciences by providing scientific and programmatic support for promising investigators and areas of research. A Core Center Grant is an institutional award to support centralized scientific resources and facilities shared by investigators with existing research projects. By providing a Center structure and Core resources this support is intended to enhance the ability of scientists working in the field of environmental health sciences to identify and capitalize on current and emerging opportunities that will lead to outstanding research advances to improve our understanding of the relationship between environmental exposures and both human biology and human disease. The NIEHS plans to award up to $6 million in FY 2011 to fund approximately four grants in response to this FOA. New or first-time applicants can apply for up to 4 years of support. New applications are limited to requests for no more than $600,000 in direct costs in the first year; $700,000 in direct costs in the second year; $800,000 in direct costs in the third year; and $900,000 in direct costs in the fourth year and a minimum of $100,000 per year is to be dedicated to the Community Outreach and Education Core (COEC). Competing renewal applications may request up to 5 years of support and up to $1,100,000 per year, with a minimum of $100,000 per year devoted to the COEC.  
ARRA (stimulus) funding and limited submissions: Information for Purdue researchers about ARRA funding opportunities and requirements may be found at [http://www.purdue.edu/Research/vpr/recovery/index.php](http://www.purdue.edu/Research/vpr/recovery/index.php). New ARRA funding opportunities are posted on this site as they are issued by the sponsors.

**THE NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES** - sponsors a number of awards for graduate, postdoctoral and senior researchers at federal laboratories and affiliated institutions. These awards provide generous stipends ($42,000 - $75,000 per year for recent Ph.D. recipients and higher for additional experience; Master's level stipends are $38,000 per annum), and the opportunity to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals. Detailed program information, including instructions on how to apply online and a list of participating laboratories, is available on the NRC Research Associateship Programs Web site at: [www.national-academies.org/rap](http://www.national-academies.org/rap) - questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu. Deadline dates for 2010 are: May 1, 2010, August 1, 2010, and November 1, 2010.
INSTRUCTIONAL INNOVATION GRANT FUNDS – COLLEGE-LEVEL REQUEST FOR PROPOSALS - Spring, 2010 - We are pleased to announce the continuation of the Provost’s Program for Instructional Equipment. The allocation from this program is used each year to fund the College-level Instructional Innovation Grant Program. This year’s total allocation to the College is $173,000. Below is the template that should be used for college-level submissions. Please clearly mark the proposal submission on the top-right corner as College-level”. Proposals may seek to address either computer and/or equipment needs at the Department and/or the College level. The evaluation committee will be asked to consider the following criteria when prioritizing proposals for funding (in order of weight): impact on teaching/learning, effectiveness of proposed implementation, serves more than one department, leverage of University infrastructure, impact on departmental capabilities, innovation/new thinking/strategic thought/format, leverage of other funds or donations. We anticipate funding 5-7 proposals this year at a maximum of $30,000. Send your submissions to David Rhodes at drhodes@purdue.edu or Lee Schweitzer at lschweitzer@purdue.edu, who are the co-chairs for the Instructional Innovation Grant Funds committee, by close of business on Friday, March 12, 2010.

Grants/Funding

MAHA FLUID POWER LAB - has received funding for the following projects: "New Energy Saving Hydraulic Architectures for Mobile Application" Komatsu Ltd.; $77,520. "Performance Prediction and System Control Through Coupled Multi-Domain Models - a Comparison Study" Doosan Corporation; $82,143. "Prototype Design of a Hydraulic Hybrid Powertrain for LLV" AM General LLC; $49,461.75.

MAHA FLUID POWER LAB - has received funding for the following two new projects funded by the Engineering Research Center for Compact and Efficient Fluid Power: New Material Combinations and Surface Shapes for the Main Tribo-systems of Piston Machinery and Multiactuator Hydraulic Hybrid Machine Systems.

Papers/Presentations/Seminars/Publications

MAHA FLUID POWER LAB – the following research papers have been accepted for presentation at the 7th International Fluid Power Conference in Aachen, Germany in March 2010:


MISHRA, V. AND K. A. CHERKAUER - Trends, Variability and Extremes of Summer Drought in the Midwest United States: the Role of Climate Variability and Snow Storage, American Meteorological Society (AMS) 22nd Conference on Climate Variability and Change, Atlanta, GA.


CLEMENTSON, C.L. AND ILELEJI, K.E. – Variability of bulk density of distillers dried grains with soluble (DDGS) during gravity-driven discharge. Bioresource Technology, ref# BITE-D-09-03706R2. Accepted on 02/18/2010.


MISHRA, V., K. A. CHERKAUER AND L. C. BOWLING - Are small lakes becoming ice free in the Great Lakes Region, American Meteorological Society (AMS) 22nd Conference on Climate Variability and Change, Atlanta, GA.


CLEMENTSON, C.L., ILELEJI, K.E., ROSENTRATER, K.A. – Evaluation of measurement procedures used to determine the bulk density of distillers dried grains with soluble (DDGS). Transactions of the ASABE,ref# FPE-08131-2009. Accepted on 02/18/2010.


VIMAL MISHRA, KEITH A. CHERKAUER, DEV NIYOGI, MING LEI, BRYAN C. PIJANOWSKI, DEEPAK K. RAY, LAURA C. BOWLING AND GUOXIANG YANG - A regional scale assessment of land use/land cover and climatic changes on water and energy cycle in the upper Midwest United States, Int. J. Climato., Accepted January 2010.

**ABC News**

KEITH CHERKAUER - spent the first week of the new year in China were he participated in the joint China-US Workshop on “Sustainable Management of Soil and Water Resources” Hosted by the Chinese Academy of Science’s Institute of Applied Ecology in Shenyang, China. While there he presented a talk titled “Climate and land use change impacts on water resources in the US” and participated in talks to establish relationships between Purdue and several universities and institutes including the hosts the Institute of Applied Ecology, and Shenyang Agricultural University. The trip also included stops and presentations in Harbin and Beijing, China. Keith and other conference attendees were also taken to see the Harbin Ice and Snow World, where he got up close and personal with one of his favorite topics – frozen water.

**INTRODUCE A GIRL TO ENGINEERING** - Twenty-three women high school students visited ABE Saturday, February 20. They were participating in the "Introduce a Girl to Engineering" event sponsored by the Women in Engineering Program at Purdue. The attendees were from throughout the Midwest and were introduced to both the Agricultural Engineering and Biological Engineering majors. Jenna Rickus and Jamie Ho talked with the students about BE and John Lumkes, Jose Garcia, John Andruch, and Jingjing Guo talked about AE and taught the students about fluid power, helping the students build and operate small mini-excavators using water hydraulics.
FROM THE ABE BUSINESS OFFICE - A new policy has been instituted that affects anybody driving on University business. This policy outlines new requirements for individuals based on their motor vehicle record who will be driving on university business as indicated by means of an approved Form 17 or any travel on university business within the state of Indiana (which falls under “Blanket Travel” and does not require a Form 17). It is required that you understand and comply with this policy prior to any travelling on university business. The gist of the policy is that the policy determines who is “Acceptable”, “Conditional”, and “Unacceptable” to drive on university business – including driving your own personal vehicle on university business. A copy of the policy can be viewed here: http://www.purdue.edu/policies/pages/facilities_lands/i_2_1.shtml.

Who is eligible to drive on university business? Requirements vary depending on frequency of travel and position. Quick reference cards have been created to help quickly determine who is eligible to drive:

For Graduate/Undergraduate Students & Volunteers:


For Employees who drive 4 or fewer times on university business per week:


For Employees who occasionally drive at least 5 times on university business per week:


How will this policy be implemented and enforced? This policy will be implemented different depending on which category on your employment status and frequency of use:

For Graduate/Undergraduate Students & Volunteers: Purdue’s Risk Management department must pull your MVR record and determine your eligibility. It is your responsibility to fill out and print the RM01D (http://www.purdue.edu/risk_mgmt/pdf/rm01D.pdf) and return to the business office within 10 business days of business travel for processing and decision. The policy goes into effect for this group effective March 1, 2010, which means we will need any RM01D’s ASAP for March travel. Costs for Graduate Students are covered centrally; however, supervisors are required to pay $11 to Risk Management to cover the cost of pulling the MVR records for Undergrads and Volunteers. These funds must come from general or gift fund sources, not from sponsored agreements.
For Employees who drive 4 or fewer times on university business per week: You will self-certify (either by checking a box on the Form 17 or implicitly by travelling under the “Blanket Travel” as applicable) prior to driving that you understand and are in compliance with this policy and fit into the acceptable category.

For Employees who occasionally drive at least 5 times on university business per week: Frequent travelers have the same requirements as students and volunteers (above) except that this policy goes into effect April 1, 2010 as opposed to March 1, 2010 for students. Costs for MVR checks for regular employees are covered centrally with no cost to the supervisor.

Per the new policy, “Drivers who fail to adhere to this policy and its related procedures may be deemed not to qualify for Indemnification from the University, and may be subject to disciplinary action as deemed appropriate.” Risk Management reserves the right to spot check MVR records for individuals travelling who self-certify, and the Business Office is charged with notifying Risk Management of any individuals, especially students, who driven on university business without approval from Risk Management.

You will most likely have questions about this policy, and some of you will most likely have unique situations that may not be specifically addressed. If you have any questions, please read the policy first and understand it. Also, Risk Management has put together a detailed FAQ for review here: [http://www.purdue.edu/risk_mgmt/pdf/VehicleUseFAQ.pdf](http://www.purdue.edu/risk_mgmt/pdf/VehicleUseFAQ.pdf). If you still have questions please contact Adam Knust – acknust@purdue.edu or 63843.

### Student News

**Federica Franzoni** – a visiting scholar from The University of Modena and Reggio Emilia in Reggio Emilia, Italy completed her work at Maha Fluid Power Lab and returned to Italy to finish her PhD. Her work at the lab consisted of studies of the internal friction of axial piston hydraulic machinery.

**Marco Zecchi** – a visiting scholar from the University of Parma in Parma, Italy completed his research at Maha Fluid Power Lab and returned home to Italy. His work at Maha Lab consisted of modeling the cylinder block-valveplate interface in axial piston hydraulic machinery.

**Andrew Schenk, Jess Rose, and Jacob McLeod** – MAHA Fluid Power Lab researchers have applied for fellowships through the National Science Foundation’s Graduate Research Fellowship Program.
**SUMMER 2010 FLUID POWER SCHOLARS PROGRAM: A PAID INDUSTRY INTERNSHIP**

Application Deadline: Monday, March 1, 2010. For more information and to apply: [http://www.ccefp.org/get-involved/students/fluid-power-scholars-program](http://www.ccefp.org/get-involved/students/fluid-power-scholars-program) - The Fluid Power Scholars Program is a collaborative effort between the Center for Compact and Efficient Fluid Power (CCEFP) and companies in the fluid power industry who are corporate members of the CCEFP. This highly selective summer program identifies and connects the very best undergraduate engineering students across the United States to the fluid power industry with the purpose of training the next-generation of fluid power leaders.

**CHS FOUNDATION** - introduced a mini-grants program, offering up to $1,000 grants per academic semester to campus-sanctioned clubs/organizations with an agricultural-related focus. The purpose of this program is to strengthen student learning and enhance professional development. Further details and a link to the application can be found at [http://www.chsfoundation.org/scholarshipprog.html#minigrants](http://www.chsfoundation.org/scholarshipprog.html#minigrants).

**THE FLUID POWER SCHOLARS PROGRAM** - is a collaborative effort between the Center for Compact and Efficient Fluid Power (CCEFP) and companies in the fluid power industry who are corporate members of the CCEFP. This highly selective summer program identifies and connects the very best undergraduate engineering students across the United States to the fluid power industry with the purpose of training the next-generation of fluid power leaders.

This is a highly competitive program, open to undergraduates who have successfully completed at least two years in an accredited engineering program in the United States. The Scholars program begins with an intensive three-day instructional program in fluid power, taught at the Fluid Power Institute at the Milwaukee School of Engineering (MSOE), and follows with internships in the fluid power industry. Up to ten undergraduate students will be selected as Fluid Power Scholars by a committee of faculty and industry representatives. In addition to their paid internships, scholars will receive stipends for travel and living expenses associated with their work at MSOE. See the list of available [2010 Internship positions](#).

**PSWE QUIZ BOWL!**

When: Friday, March 5th, 7-9 pm                      Where: FRNY G140

Who: All Purdue students/student organizations and the High School Seniors participating in SWE Senior Sleepover

What: Make a team of 4 people, and compete against other teams in categories including Science/Math, Literature, Social Sciences, Entertainment, and Purdue trivial! The event will also include some time to mingle with both high school and college students! Register: By March 4th by filling out the following form: [http://spreadsheets.google.com/viewform?formkey=dFNhMGc1Zm5YLU8xVzlOWRZOGJDOXc6MA](http://spreadsheets.google.com/viewform?formkey=dFNhMGc1Zm5YLU8xVzlOWRZOGJDOXc6MA)
ASABE MIDWEST REGIONAL RALLY - Last weekend (Feb.27 & 28) was the Midwest Regional Rally at the University of Illinois. At the business meeting, Purdue volunteered to host next year’s rally. Stephen Brunton was elected to be the 1st President, and Anne Dare was elected to be the 2nd President. Purdue is charged with organizing, fundraising, and promoting the 2011 rally. This should be a great opportunity to bring some outstanding undergraduate and graduate ABE students to campus for a couple days, and promote membership within the student chapter.

PURDUE SCHOLARSHIP PROGRAM IN QUANTITATIVE PHYSIOLOGY - This NSF-funded STEM program provides scholarships and a unique, supportive, training community for academically talented undergraduate students with demonstrated financial need and an interest in learning to approach important biological problems in multiple ways. Students with complementary backgrounds will be paired with one another to form a learning and research community. Students will be drawn from all disciplines related to quantitative physiology, including but not limited to biology, mathematics, biomedical engineering, and agricultural engineering. Financial need and academic promise will be the primary criteria for selecting students for the program. The goal of this program is to foster interdisciplinary training and research leading to a degree in a field with exciting career prospects. We will provide **financial support of up to $2500 or more in the first year**, community support, and classroom and experiential learning opportunities in quantitative and experimental aspects of physiology. Students in the program will serve as mentors for less senior students and will serve as role models for their previous high schools. Students with complementary backgrounds (quantitative vs bioscience training) will be paired to promote interdisciplinary study and research. For additional information visit - [http://quantphys.math.purdue.edu](http://quantphys.math.purdue.edu) - The deadline for applications is March 15, 2010 or until all spots are filled.

ABE STUDENTS - If you are looking for an opportunity for this summer and have an interest in research, please consider applying for the Summer Undergraduate Research Fellowships (SURF) program. This program provides $4200 for the summer while you work with a professor here on campus. If you are interested in working with an ABE faculty member, talk with them about potential projects they may have. Additional details including the application is available at - [https://engineering.purdue.edu/Engr/Research/SURF](https://engineering.purdue.edu/Engr/Research/SURF).
**ABE GSA** – ABE was one of the top two participating departments at the College of Engineering Graduate Student Celebration! The ABE GSA officer team would like to thank all graduate students that attended. We hope you all enjoyed the break away from the lab for some free food and games!

As a winner, ABE GSA will receive $500 from the College of Engineering. We were required to submit a proposal on how ABE would spend the money in advance of the event and we proposed using the money for ABE GSA tee shirts and a mentoring event. So be on the lookout for those! Thanks again for showing everyone that the ABE department is one of the best in the college!

**REBECCA LOGSDON (ABE GRADUATE STUDENT)** – will be participating in the Susan G. Komen 3-Day Walk for the Cure in Chicago this summer. This event is to help raise money and awareness for breast cancer. Becca’s mother is a breast cancer survivor, and she and Becca are doing this walk together in celebration of her 25th year of surviving. For additional information or to make a pledge see – [http://www.the3day.org/goto/blondesforboobs](http://www.the3day.org/goto/blondesforboobs).

**Alumni News**

**THOMAS BURKE (ABE BS ‘79)** – has been named the 2010 ABE Distinguished Engineering Alumni - The Distinguished Engineering Alumni Award is presented to engineering alumni who have distinguished themselves in any field of endeavor that reflects favorably on Purdue University, the engineering profession, or society in general.

Mr. Burke received a bachelor’s degree in Machine Systems Engineering from Purdue University in 1979, and has been a long time member of several professional organizations, including ASABE and SME.

In the beginning of his career, Mr. Burke spent 13 years with Ford Motor Company in the Climate Control Division in a variety of engineering and operations positions in the United States and Mexico.
Then, Mr. Burke worked for nine years with Visteon Corporation, where he was Vice President of the North American Manufacturing Operations with responsibility for more than $10 billion in sales. While there, he led an effort to develop and implement business strategies to enhance the company’s global manufacturing product portfolio. Before that, and based in Cologne, Germany, Mr. Burke served as Vice President of European and South American Manufacturing and Vice President of North American and Asian Operations.

Mr. Burke joined Modine Manufacturing Company in 2005 as Executive Vice President. In July 2006, he was promoted to the position of Executive Vice President and Chief Operating Officer, taking on the responsibilities of streamlining the company’s global organizational structure. As COO, he was in charge of all global operations for the Powertrain Cooling, Engine, Passenger Thermal Management, Commercial and Fuel Cell Products Groups, as well as the Environmental, Safety and Security Department.

Mr. Burke, was born in South Dakota and is a native of Bloomington, Illinois. He is on the Board of Trustees of MAPI/Manufacturers Alliance and been nominated to become a director of the National Association of Manufacturing for a term beginning in January 2010. In addition, Mr. Burke serves on the Board of Directors of the Racine County United Way. He resides in Racine, Wisconsin with his wife Ginee, and they have two grown children.

**FYI**

**THE PURDUE EMPLOYEES ACTIVITY PROGRAM** - a subcommittee of the Clerical and Service Staff Advisory Committee, has planned a bus trip April 10 for a shopping excursion to Schaumburg, Illinois. The trip is open to all Purdue staff, faculty, students and friends. The bus is scheduled to leave Freehafer Hall at 8 a.m. April 10, and will leave Chicago at 5 p.m. Chicago time for the return trip. Cost is $25 per person. To register for the trip, fill out the form at [www.purdue.edu/cssac/Employee_Trips/](http://www.purdue.edu/cssac/Employee_Trips/). Deadline for registration is March 24.
**March 2010**

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<th>Date</th>
<th>Event</th>
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<tr>
<td>3</td>
<td>Purdue Graduate Student Career Fair – PMU Ballrooms – 10:00 am to 4:00 pm</td>
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<td>5</td>
<td>DAA Award – Ed Voldell</td>
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<td>6</td>
<td>Dean’s Advisory Council spring meeting - contact Dinah McClure at 49-49505.</td>
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<td>8</td>
<td>Faculty/Staff Meeting – 11:30 am – ABE 301</td>
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<td>12</td>
<td>Big Ten Career Expo – Union Station, Indianapolis – 9:00 am to 3:00 pm</td>
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<td>15-20</td>
<td>Purdue Spring Break – March 15 thru March 20</td>
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<td>22</td>
<td>Faculty/Staff Meeting – 11:30 am – ABE 301</td>
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**April 2010**

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<tr>
<td>5</td>
<td>Faculty/Staff Meeting – 11:30 am – ABE 301</td>
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<tr>
<td>17-18</td>
<td>Purdue Springfest – ABE Saturday Only - Spring Fest information - <a href="http://www.purdue.edu/springfest">http://www.purdue.edu/springfest</a></td>
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<tr>
<td>19</td>
<td>Faculty/Staff Meeting – 11:30 am – ABE 301</td>
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<tr>
<td>20</td>
<td>Just in Time Job Fair – 10:00 am to 3:00 pm – Purdue Memorial Union</td>
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<tr>
<td>22</td>
<td>ABE Outstanding Alumni Recognition, Senior Design &amp; Capstone Project Judging &amp; Alumni &amp; Student Celebration Banquet</td>
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**May 2010**

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<tr>
<td>1</td>
<td>Spring Classes End</td>
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<td>3</td>
<td>Final Exams – May 3 through May 8</td>
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<tr>
<td>5</td>
<td>Faculty/Staff Meeting – 11:30 am – ABE 301</td>
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<tr>
<td>14-15-16</td>
<td>Spring Commencement</td>
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<td>Purdue Spring Fling</td>
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**1400 Jobs arriving in Fort Knox, Kentucky!** The Center for Career Opportunities will be hosting four [Fort Knox Jobs](http://www.fortknoxjobs.com) Information sessions on Tuesday, March 9th. Sessions begin at 2 p.m., 3:30 p.m., 5 p.m., & 6:30 p.m. There are job opening in numerous field including HR, IT, Business, Finance, Marketing, Research Analyst, and many other areas. The information sessions will cover types of jobs, qualifications, salary & benefits, and how to apply. Your college degree may substitute for experience. Each session will last 45 minutes with opportunities to network with presenters between sessions. Must be U.S. Citizen or Permanent Resident.