

■ In August, the 35th Annual National BDPA Technology Conference and Career Expo Opens in Washington, D.C.
► Pre-register today!

■ Supercomputing:
NOAA Predicts a Very Active Hurricane Season for the Atlantic Basin in 2013

■ What does IT take to fund High-Tech Small Business Start-Ups?



bdpatoday



35th Annual National BDPA Technology Conference and Career Expo

WASHINGTON, D.C.

August 13-17, 2013

HSCC, Arriving! NBDPA Launches Ensign Stevenson



Durham, NC—Ensign Raven Stevenson, United States Navy, salutes Gunnery Sergeant Ryan Claunch, United States Marine Corps, toward the end of NROTC commissioning ceremonies at Duke University, on Friday, May 10th, 2013. Ensign Stevenson is National BDPA's first High School Computer Competition (HSCC) alumna to receive a Commission in the United States Navy and U.S. Armed Forces.

"First Salutes" are long standing traditions requiring newly commissioned officers to give silver dollars to recipients of their very first salute showing respect for those superior enlisted personnel who helped the new officer achieve commissioned status.

Read more at bdpatoday.org
Members may download newsletters and press releases directly from bdpa.org.



www.bdpa.org

Pre-register and reserve rooms by June 30, 2013

New Challenges Call for New Leaders



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Washington, D.C. — In conjunction with the
35th Annual National BDPA Technology Conference

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BDPA, formerly known as *Black Data Processing Associates*, was founded in 1975 to promote professional growth and technical development to those in or entering information and communications technology (ICT) career fields and related industries. In its 38th year (*Volume 38*) National BDPA (NBDPA) Chapters publish quarterly or monthly newsletters. For newsletter or web portal advertising rates, publication schedules, online calendars, and e-newsletters, contact regional or local BDPA Chapters by visiting www.bdpa.org or by calling **301.584.3135**. **bdpatoday** (ISSN 1946-1429) is published by participating Local Chapters of NBDPA with their respective chapter Communications Committees, mailed to BDPA members, BDPA corporate sponsors and electronically delivered to BDPA Chapters and Chapter Interest Groups (CIGs) as a benefit of membership. First Class and Periodicals postage paid at Washington, D.C. and additional regional mailing offices. Unless otherwise noted by own copyright, art and graphics ©NBDPA, ©BDPA-DC, ©Corbis, ©Getty Images, © ITSMF and ©JupiterImages™. Cover graphics, photos and logos: Stevenson Family, BDPA Greater Columbia, NBDPA and **bdpatoday**. **bdpatoday** is available for online publishing of ICT industry, chapter news, and community IT, Cyber, and STEM events. Forward advertisements, articles, calendar of events, or images with captions and credits to: info@bdpatoday.org. Readers may use NBDPA Groupsite calendars, enhanced by Groupsite.com to review local events or visit www.bdpatoday.org. An advertisement, announcements, OP-EDs, tweets, re-tweets, or following NBDPA on social media does not constitute an endorsement. Contributor opinions are not necessarily those of neither **bdpatoday** nor local BDPA Chapters.





Join us for Small
Business Week
June 17–21

Visit **bdpa.org** for National Small Business Week events with participating local BDPA Chapters

7 COVER STORY

Funding Small High-Tech Start-Ups

Highlights include:

- Small Business Innovation Research (SBIR)
- Small Business Technology Transfer (STTR)
- Grants and Loans

Twitter hash-tags: **#TechandMedia** **#GOVREL**
#SmallBiz and **#BDPA**
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i see



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Government Computing: Funding High-Tech Start-Ups

by Caron Beesley via SBA.gov

WASHINGTON—Looking to start or grow your high-tech entrepreneurial venture? Need financing to help fund research and development (R&D) efforts and realize your business potential? The U.S. federal government can help!

In fact, in 2012, nearly 5,000 small businesses received over \$1.8 billion in federal government grants and contracts to help them carry out the R&D necessary to develop and bring high-tech products to market.

So how can your small business get in on the act? Here's what you need to know:

What Can Governments Do for High-Tech Small Business Sectors?

If you are starting or already operate a high-tech startup, high-growth or high-impact firm, you **may be** eligible for grants and contracts that help fund R&D and product commercialization under the federal government's Small Business Innovation Research Program (SBIR).

The risk and expense of conducting serious R&D efforts are often beyond the means of many small businesses. But, by reserving a percentage of federal R&D funds for small business, SBIR helps small businesses to compete on the same level as larger businesses. In turn, SBIR helps the federal government meet its own R&D needs in areas such as defense, healthcare, environmental protection and more. Eleven federal agencies set aside a portion of their budget each year to fund the SBIR program, with the SBA acting as the coordinating agency of the program.

Companies such as **Symantec**, **Qualcomm** and **ViaSat** all got a kick start from SBIR funds in their early years.

How does the SBIR Program Work?

The federal government has specific scientific and technological R&D goals and priorities, all of which are reflected in these solicitations from participating agencies and federal grants (listed at Grants.gov or on individual agency sites). You can search and explore these solicitations and grant opportunities to see where your R&D efforts may align with the government's needs. Then follow the application process described below (see "How Do I Get Started?"). Each agency reviews proposals based on technical merit, qualifications and potential benefits to industry and society. Once agencies grant awards to small business, they embark on the R&D process.

The Awards Process

SBIR awards are structure in three phases to reflect the R&D development cycle:

- **Phase I:** These awards are usually below \$150,000 and cover a timeframe of less than 6 months. During this initial stage, the small business and sponsoring agency explore the feasibility of the project in order to get a better sense of its commercial potential and technical requirements.
- **Phase II:** These awards are only available to small businesses that already received Phase I awards. Phase II enables a longer-term commitment. Awards can be made for up to \$1 million for two years. During this period, R&D is expanded and commercial viability can be assessed.
- **Phase III:** During this stage, innovations transition from the lab to the market, and small businesses begin the search for private sector investment. Keep in mind that the SBIR program *does not* fund Phase III; funding comes from private sources or other government grants.

See **Government Computing** on [Page 9](#)

The background of the top half of the page is a photograph of a weather vane against a blue sky with wispy clouds. The weather vane has a central pole and several directional arms with arrowheads. A large, semi-transparent blue triangle is overlaid on the left side of the image, pointing towards the bottom right. The title text is centered within this blue area.

DOING BUSINESS IN THE CLOUD WHERE TO START?

Most large organizations can benefit from selective use of the cloud. But where to start? As the world's leading independent information technology services company, we can help you reach the right decisions to make the shift to cloud computing successful. [CSC.COM/CLOUD](https://www.csc.com/cloud)

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Government Computing from [Page 7](#)

Who is Eligible for SBIR?

The eligibility requirements for SBIR are straightforward – your business must be for-profit, have less than 500 employees, be independently owned and operated and located principally in the U.S. It must also be majority-owned (51 percent) by U.S. citizens or permanent resident aliens and the principle researcher must be an employee of the company.

As you can imagine, SBIR is a highly competitive program. Visit the [interactive directory of SBIR awards](#) for a review of past awards, proposal abstracts and more.

How Does One Get Started?

SBIR.gov includes information for applicants, but, as mentioned above, the application process starts with research:

- Check the list of open solicitations at SBIR.gov. Each solicitation explains the areas of R&D that agencies are interested in.
- If you have questions, contact the individual agency. Refer to this [contact list](#).
- Register your business with SBA's Company Registry prior to submitting an application.
- Get [tips and training](#) on applying to the SBIR program.
- Search for grant opportunities on Grants.gov.
- **Submit proposals!** Typically, an SBIR Phase I proposal submission package has the following components: a business plan, executive summary, cost and technical proposal.

Government Computing is Open for Business

President Obama recently signed the Fiscal Year 2013 (GFY13) National Defense Authorization Act (NDAA), which appropriates funds for military activities of the Department of Defense and other national security programs. In March 2013, the President signed legislation

to keep the federal government operating for the rest of this budget year (GFY13) to the tune of \$984 billion.

How does NDAA affect me, my business, or my local chapter? For those already trading with government, the NDAA includes a number of provisions that impact you. The Small Business Administration (SBA) also feels it would be beneficial to highlight the top five points of interest small businesses should know about the FY13 NDAA.

- **Women-Owned Small Business Contracting Program:** Greater access to federal contracts provided.
- **Mentor Protégé Program (MPP):** Establishes a Mentor Protégé Program modeled after SBA's 8(a) Mentor Protégé Program for all small businesses.
Updated MPP details for FY13 expected this month.
- **Surety Bond Limits:** Raises the SBA guaranteed surety bond limits from \$2 million to \$6.5 million, and allows for bonds up to \$10 million on federal contracts if the contracting officer certifies that the surety is needed for award of the contract.
- **Senior Executives:** Requires agency heads ensure members of the Senior Executive Services (Senior Leadership) receive training with respect to Federal acquisition requirements, including training requirements under the Small Business Act.
- **Small Business Contracting Requirements Training:** Requires the Defense Acquisition University and the Federal Acquisition Institute establish a mandatory course on small business contracting in order for members of the federal acquisition workforce to get certified in contracting.

Excerpts for this article were provided by **CSC**, **SBA**, and the **Defense Department**. For more information, download a White Paper from one of BDPA's sponsors: [Innovation for a More Efficient Government](#), published by CSC.  



CBCF Emerging Leaders Internship Program

Congressional Black
Caucus  Foundation

WASHINGTON—The goal of the Emerging Leaders Internship Program sponsored by Walmart is to create a corps of trained, young leaders with the skills, outlook and contacts necessary to generate and sustain positive change in Washington, D.C., and their local communities. Alumni will return to their communities knowing what it takes to pass legislation, form public policy and create coalitions. In short, they will leave the program better informed about how politics works and more aware of how they can influence the public policy-making process.



The Program

The Emerging Leaders Internship Program sponsored by Walmart is a semester-long paid internship for college students. Interns work four days on Capitol Hill, in federal agencies and at non-profit organizations. Past interns have served in various capacities at the Department of Justice (DOJ), the Food and Drug Administration (FDA), the Transportation Security Administration (TSA), Department of Housing and Urban Development (HUD) and on House and Senate committees. On Friday afternoons, interns attend educational seminars that focus on domestic and international issues, participate in leadership-training sessions and visit cultural and historical sites in the Washington, D.C., area. Each cohort must complete a team community service project in the surrounding community. CBCF provides housing and a stipend. This program is offered during the fall and spring semesters.


Benefits

- Interns will receive a \$4,000 stipend
- Housing at a local university (all expenses covered)
- Interns may be eligible to receive academic credit at their college or university for participating in the program

Eligibility

- U.S. citizen or permit to work in the U.S.
- Currently or recently (within the past 12 months) enrolled in college full-time when applying for program
- Have a minimum GPA of 2.5 on a 4.0 scale
- Be at least a college sophomore by the internship start date
- Demonstrated interest in public service, governance, and policy-making process

See ***Emerging Leaders***, Page 23

A portrait of Diane Cruz-Burke, a woman with short dark hair, smiling and wearing a bright pink quilted jacket over a black turtleneck. The background is a blurred outdoor scene with warm lighting.

Diane Cruz-Burke

Assistant General Counsel,
Eli Lilly and Company

Started as an attorney at Lilly in 1994

Holds law degree from Harvard University,
first in her family to graduate from college

Active in the Organization of Latinos at Lilly

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Part of my fabric.

Both of my parents come from large families that migrated to the mainland U.S. from Puerto Rico when they were very young. They watched their parents struggle and never get ahead. But, they were determined that one day their own children could realize a better future.

Growing up in a close, extended family exposed me to a variety of challenges. We depended on one another, and for me that meant taking on huge responsibilities, even at a young age. At times, this

could be emotionally draining, but it taught me how strong I really was. With the support of my family, I learned that problems are really opportunities to reshape the things we're not happy with. Anything is possible with persistence and focus.

This is an important part of my fabric. It's what makes me passionate about life and our mission to affect improved patient outcomes. Just as I have personally overcome challenges, I hope to use these experiences to positively impact the lives of others.

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National Small Business Week ^{50 years}


About National Small Business Week

Washington—Every year since 1963, the President of the United States has issued a proclamation announcing *National Small Business Week*, which recognizes the critical contributions of America's entrepreneurs and small business owners.

More than half of Americans either own or work for a small business, and they create about two out of every three new jobs in the U.S. each year.









As part of National Small Business Week, the U.S. Small Business Administration takes the opportunity to highlight the impact of outstanding entrepreneurs, small business owners, and others from all 50 states and U.S. territories. Every day, they're working to grow small businesses, create 21st century jobs, drive innovation, and increase America's global competitiveness.

BDPA Members, Entrepreneurs, Prime Contractors, and Students are cordially invited to participate in this special week's events in your region.

Check local BDPA Chapter listings and BDPA social media channels via bdpa.org for these and other related events. 

Sources: SBA.gov and [The Microsoft Store](http://TheMicrosoftStore.com)

2013 Event Schedules for BDPA Members

Date & Host Chapter	Event Details
Monday June 17 BDPA Seattle <i>Host Chapter</i>	  MICROSOFT CAMPUS – BLDG 37 16071 Northeast 36 Way Redmond, WA 98052
Tuesday June 18 BDPA Dallas <i>Host Chapter</i>	 ARLINGTON CONVENTION CENTER 1200 Ballpark Way Arlington, TX 76011
Wednesday June 19 BDPA St. Louis <i>Host Chapter</i>	 HARRIS-STOWE STATE UNIVERSITY 3026 Laclede Avenue St. Louis, MO 63103
Thursday June 20 BDPA Pittsburgh <i>Host Chapter</i>	 PITTSBURGH TECHNICAL INSTITUTE IN OAKDALE 1111 McKee Road Oakdale, PA 15071
Thursday June 20 6pm – 9pm BDPA NoVA BDPA Washington <i>Host Chapters</i> by Invitation Only	  THE MICROSOFT STORE BDPA Members & Entrepreneur s Mixer at Fashion Centre Pentagon City 1100 South Hayes Street Arlington, VA 22202
Friday June 21 BDPA NoVA BDPA Washington <i>Host Chapters</i>	 RENAISSANCE WASHINGTON, DC DOWNTOWN HOTEL 999 9th Street NW Washington, DC 20001

Far from Ordinary

The U.S. is under cyber attack, every minute of every day. That's why cyberspace has become today's new front line. What you know can make a difference at the National Security Agency. Whether it's collecting foreign intelligence or preventing foreign adversaries from accessing U.S. secrets, you can protect the nation by putting your intelligence to work. Explore technology that's years ahead of the private sector. Plus exciting career fields, paid internships, co-op and scholarship opportunities. See how you can be a part of our tradition of excellence and help the nation stay a step ahead of the cyber threat.



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- Cybersecurity
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- Mathematics
- Foreign Language
- Intelligence Analysis
- Cryptanalysis
- Signals Analysis
- Business Management
- Finance & Accounting
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BDPA


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bdpa.org

Backgrounder | [About NBDPA](#)

Founded in 1975, National BDPA (formerly, *Black Data Processing Associates*) is an internationally recognized organization of IT professionals whose goals include preparing young people who are interested in becoming the next generation of 'Information Technology Thought Leaders' in academia and corporate America. The regional and national HSCC championships are part of the BDPA science, technology, engineering and mathematics (STEM) pipeline summarized in its motto, 'From the Classroom to the Boardroom'.

At the national level, NBDPA hosts computer competitions at annual conferences and each chapter is invited to bring a five-member team to compete. Winners at the national level are rewarded with scholarships and sponsored items, up to and including desktop or notebook computers. 

Source: bdpa.org



National BDPA Seeks Leadership Teams for FY14-FY15


Nominations and Elections | Chapter Delegates to Convene in Washington this August



BDPA: Advancing Technical Careers from the Classroom to the Boardroom



In accordance with its By-laws, the National BDPA Election and By-laws Committee (EBC) seeks active BDPA Members to serve on its Board of Directors, with a term beginning on January 1, 2014 and ending December 31, 2015. The Committee invited those seeking to serve on the association's Board of Directors to **declare their candidacies** last month.

In accordance with the National BDPA Bylaws Article 12 Section 1, proposals for amendments of the Bylaws also were submitted in April. Contact [Judaea Lane](#), NBDPA EBC Chair via email (ebc@bdpa.org) or contact your local BDPA Chapter to view this year's candidates. Join or renew to become a Delegate representing your local BDPA Chapter during this year's National BDPA elections. 

BDPA CHAPTER NEWS & INDUSTRY EVENTS

Backgrounder | [About BETF](#)



BDPA Education and Technology Foundation (BETF or BDPA Foundation) is a 501(c)(3) non-profit charity, founded in 1992 to support the education and technical programs of BDPA, now formerly known as Black Data Processing Associates.

BETF recognizes that to close the gap of computer and technology literacy, minority youth must participate and compete in today's digital economy. The BDPA Foundation wants students from historically disadvantaged communities and HBCU/MIs to learn advanced computer science and community responsibility from any of the BDPA chapters located around the nation or forming abroad.

Recently, the BDPA Foundation created an Endowment fund with the intent of increasing the number and size of the scholarships awarded these students. The scholarships target our young people seeking a degree in Information Technology or related discipline at accredited colleges or universities. [bt](#)

Source: [betf.org](#)

HBCU Initiatives

On September 24-25, 2013, The White House Initiative on Historically Black Colleges and Universities (HBCUs) will host its annual two-day national conference commemorating National HBCU Week and highlighting the significant contributions which HBCUs have made to the nation.



Photo: © [bdpatoday](#)

Regional executives were panelists during the 2011 annual Spring Advance Program Briefing to Industry (APBI) at Bowie State University. Panelists supporting industry forecasts and BDPA's CNCI, OPSEC, Cyber, and CS-STEM outreach programs were (l-r): Captain Daniel Lakhani, **U.S. Marine Corps**; Rear Admiral Michelle Howard, **U.S. Navy** and 2011 BDPA Regional Conference Keynote Speaker; Lisa Harbour-Carter (seated), **Comcast**; and Keith Scott (standing), Federal Defense/Intel Account Executive for **FireEye**.

Sign Up. Show Up. Step Up.



Mentors and Volunteers. Join or renew memberships with a local BDPA Chapters.

[bdpatoday](#)



www.bdpa.org

A full-page photograph of a young Black man in a United States Marine dress uniform. He is wearing a white dress cap with the Marine Corps emblem, a black high-collared jacket with gold buttons and epaulettes, and a black belt with a large gold buckle. His chest is adorned with several rows of colorful service ribbons and two medals. He is standing in front of a white suburban house with dark shutters and a brick foundation. The scene is set during autumn, with trees showing orange and yellow leaves in the background.

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This Summer in Washington, review The “*President’s Own*”

Established in 1801, Marine Barracks Washington is the "Oldest Post of the Corps" and has been the residence of every commandant of the Marine Corps since 1806. The selection of the site for the Barracks was a matter of personal interest to President Thomas Jefferson, who rode through Washington with Lt. Col. William Ward Burrows, the second commandant of the Marine Corps, in search of a suitable location. The site now occupied was approved due to its proximity to the Washington Navy Yard and because it was within easy marching distance of the Capitol.

The Barracks has also been home to the United States Marine Band since 1801. Shortly after its formation, the band was requested to play for President John Adams at the Executive Mansion. This White House engagement began a tradition which became so established that today the names "Marine Band" and "President's Own" are synonymous. It was at the Barracks that John Philip Sousa, during the time he was the director of the Marine Band, wrote many of his immortal marches. [ht](#)

Above: Capt. David Bouchard, parade adjutant, salutes the U.S. Marine Band drum major following their performance during a Friday Evening parade at Marine Barracks Washington, D.C., on July 20, 2012. *USMC Photo: Corporal Jeremy Ware.*



*While visiting Washington, D.C. in August this summer during the **National BDPA Technology Conference and Career Expo**, view the **Sunset Parade at the Iwo Jima Memorial on Tuesday, August 13, 2013 in Arlington, VA** or view the **Evening Parade and Concert on Friday, August 16, 2013 at Marine Barracks Washington, D.C.** Both events are free and open to the public. Seating for Evening Parades generally requires reservations. Contact your host BDPA Chapter for additional details or special arrangements.*

CAREER NEWS & EVENTS



@bdpatoday | Hash Tags: #ITJobs #Careers #Internships #BDPA


Chicago, IL—National BDPA's **ITDiversityCareers** is an excellent job resource connecting IT professionals with employers. Job seekers can search nationwide for technology careers in many sectors. NBDPA is recognized as the premier organization for African American information technology professionals. Corporate Sponsors ranging from entrepreneurial start-ups to 'Fortune 100' corporations regularly post **job opportunities** and have access to a resume database of diverse technical talent. The number of job postings and resumes continue to grow.



NBDPA's updated site is user friendly with new registrations being quick and easy. Even the most passive job seeker may have an exciting job meeting their search criteria created by *My Job Search Agents*, then conveniently e-mailed to them or sent via RSS feed. The same person can "anonymously" post resumes and Recruiters can easily find them while sourcing resumes.

More active job seekers may want to utilize tools available to stay organized by tracking saved jobs and their job application history. The candidate dashboard is simple to navigate. There is even a function to add a photo to your profile if you wish!

Employers and IT professionals are successfully connecting and collaborating using **ITDiversityCareers**. It is a benefit of **BDPA Membership** shared with all technology professionals across all STEM domains. Login to create new accounts today. Collaborate directly with ICT industry executives and BDPA Members via bdpa.org.

Portia Westbrooks, BDPA-Chicago, contributed to this article. She and members of other National BDPA Chapters are expected to attend next year's National IT Career Fair when it returns to Washington, D.C. In addition to being a BDPA Member, Portia is a recruiting and diversity consultant. You may follow Portia on Twitter: [@IT_Head_Hunter1](https://twitter.com/IT_Head_Hunter1) 



Upcoming BDPA and ICT Events

Information & Communication Technologies (ICT)

► Chapter Fund Raiser Event

June 6, 2013 ► Host Chapter: **BDPA Baton Rouge**

Baton Rouge, LA

► Regional HSCC and IT Showcase

BDPA South Region

June 8, 2013 ► In *IT-oLogy Building*, Columbia, SC

Columbia, SC | Host Chapter: **BDPA Greater Columbia**

► 10th Annual Families in Technology Day

June 10, 2013 ► **NJ Institute of Technology (NJIT)**

Newark, NJ | Host Chapter: **BDPA New Jersey**

► Regional HSCC and Career Symposium

BDPA North Region | Host Chapter **35th Anniversary Event Series**

June 15, 2013 ► At *Bowie State University*, Bowie, MD

Washington, DC | Host Chapters: **BDPA-DC/BDPA NoVA**



Local students design logos for apparel and video games with educational resource providers who specialize in developing web based STEM (science, technology, engineering & math) curricula. NBDPA Photo credits: **BDPA Philadelphia** and **Monique Berry**.

► BDPA & BIT | Giving IT Back: Volunteerism + Technology

June 19, 2013 ► At *Brown Mackie College*, Cincinnati, OH

Cincinnati, OH | Co-Hosts: **BDPA Cincinnati & Blacks In Technology**

► 2013 National Small Business Week Events & Mixers

June 20, 2013 ► *The Microsoft Store*, Pentagon City Fashion Centre

Washington, DC | **BDPA-DC, BDPA NoVA & Participating Chapters**

► 35th Annual National BDPA Technology Conference

August 13-17, 2013 ► **June 30, 2013** for Rooms & Pre-Registrations

Washington, DC | Host Chapters: **BDPA-DC/BDPA NoVA**

Visit bdpa.org and Groupsites for BDPA Chapter event details.



35th Annual National BDPA Technology Conference & Career Expo

AN ICT INDUSTRY EVENT | **Washington, DC • AUG 13-17, 2013**

Washington, D.C.—This year's National BDPA Technology Conference Host Chapters are Washington (BDPA-DC) and Northern Virginia (BDPA NoVA.) Professionals and students will find industry mentors, technical training, networking, CxO role models, and national scholarship award events.

Members, Professionals, and Students attending this year's career fair will discover top employers from our Information and Communications Technology (ICT) industry's high growth market segments. Attendees are afforded the opportunity to take full advantage of National BDPA's resources designed to enhance relationship building with hiring managers from corporate sponsors. Moreover, senior IT and cybersecurity career opportunities with national job searches are provided to enhance professional and academic IT careers.

BDPA Sponsors and Exhibitors will leverage opportunities to enhance their visibility across STEM, IT, Cloud, Big Data, and Cybersecurity special interest groups (SIGs) to identify and recruit new hires directly from top talent pools available within the National Capital Region.

Our National High School Computer Competition (HSCC) and collegiate IT Showcase (ITSC) programs also provide opportunities for industry and academia to directly connect with students from local BDPA chapters, including qualified HSCC and ITSC student pipelines, to close digital divides and develop tomorrow's IT workforce. Whether you are in the job market or not, don't miss National BDPA's 35th Annual Technology Conference, Career Expo, reunions, and anniversary events in Washington, D.C. this summer. **bt**



Seattle, Washington

February 5-8, 2014

BDPA Northwest Region

Save the Date: **2014 ACM Richard Tapia Celebration of Diversity in Computing**

Richard Tapia is a mathematician and professor in the Department of Computational and Applied Mathematics at Rice University in Houston, Texas. He is internationally known for his research in the computational and mathematical sciences and is a national leader in education and outreach. Tapia's current Rice positions are University Professor (only the sixth individual afforded this title in the 100-year history of Rice University), Maxfield-Oshman Professor in Engineering, Associate Director of Graduate Studies, and Director of the Center for Excellence and Equity in Education.

Tapia was born in Los Angeles to parents who separately emigrated from Mexico as young teenagers in search of educational opportunities for themselves and for future generations. The first in his family to attend college, Tapia went on to receive B.A., M.A. and Ph.D. degrees in mathematics from the University of California, Los Angeles. In 1967 he joined the Department of Mathematics at UCLA and then spent two years on the faculty at the University of Wisconsin. In 1970 he moved to Rice University where he was promoted to associate professor in 1972 and full professor in 1976. He chaired the department from 1978-1983. He is currently an adjunct faculty member of both Baylor College of Medicine and the University of Houston. Tapia has authored or co-authored two books and more than 100 mathematical research papers.

While at Rice, Tapia has directed or co-directed more underrepresented minority and women doctoral recipients in science and engineering than anyone in the country, and has led several programs that have brought recognition to the university's commitment to diversity. Since 1996, 60 underrepresented minority students have received Ph.D.s in science and engineering at Rice University. Tapia directs programs that are supported by the Alfred P. Sloan Foundation, the National Science Foundation, and other organizations that are designed to increase the number of underrepresented minorities obtaining graduate degrees in science, technology, engineering and mathematics and enhance the preparation of underrepresented minorities for faculty positions in academia. At Rice, the NSF-supported Alliances for Graduate

Education in the Professoriate has developed a supportive community of students and faculty members that gives advice on admissions to departments and provides students with formal and informal resources, support, and professional development. Professor Tapia is recognized as a national leader in diversity and has delivered numerous invited addresses at national and international mathematics conferences, served on university diversity committees, and provided leadership at a national level. Two professional conferences have been named in his honor, recognizing his contributions to diversity: Richard Tapia Celebration of Diversity in Computing conference and the Blackwell-Tapia Conference, whose founders described Tapia as a seminal figure who inspired a generation of African-American, Native American and Latino/Latina students to pursue careers in mathematics.

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National Science Foundation

The National Science Foundation (NSF) is an independent federal agency created by Congress on 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..." The funding from NSF for Tapia 2013 was made possible by a grant, CNS 1050330, from the CISE Directorate.

Beyond Broader Engagement

The Beyond Broader Engagement at SC is funded by the NSF Broadening Participation in Computing program within the CISE directorate. Led by Dr. Raquell Holmes, the effort looks to engage participants of the Broader Engagement program with other efforts in BPC as well as to invite participants of other BPCs to utilize the SC broader Engagement program.

XSEDE (Formerly TeraGrid)

The Extreme Science and Engineering Discovery Environment (XSEDE) is the most advanced, powerful, and robust collection of integrated advanced digital resources and services in the world. It is a single virtual system that scientists can use to interactively share computing resources, data, and expertise. 

NOAA expects an active 2013 Atlantic hurricane season, but below-normal 2013 Pacific hurricane season...

... Next month, NOAA plans to bring online a new supercomputer that will run upgraded Hurricane Weather Research and Forecasting (HWRF) models

◀ Hurricane Sandy as seen from NOAA's GOES-13 satellite on October 28, 2012.

Photo credits: NOAA and NASA.

responsible for the ongoing era of high activity for Atlantic hurricanes that began in 1995;


- Warmer-than-average water temperatures in the tropical Atlantic Ocean and Caribbean Sea; and
- El Niño is not expected to develop and suppress hurricane formation.

NOAA's seasonal hurricane outlook is not a hurricane landfall forecast; it does not predict how many storms will hit land or where a storm will strike. Forecasts for individual storms and their impacts will be provided throughout the season by NOAA's National Hurricane Center.

New for this hurricane season are improvements to forecast models, data gathering, and the National Hurricane Center communication procedure for post-tropical cyclones. In July, NOAA plans to bring online a new supercomputer that will run an upgraded Hurricane Weather Research and Forecasting (HWRF) model that provides significantly enhanced depiction of storm structure and improved storm intensity forecast guidance.

Also this year, Doppler radar data will be transmitted in real time from NOAA's Hurricane Hunter aircraft. This will help forecasters better analyze rapidly evolving storm conditions, and these data could further improve the HWRF model forecasts by 10 to 15 percent. [ht](#)

Sources: NOAA and NASA



Miami, FL—In its 2013 Atlantic hurricane season outlook issued last month, NOAA's Climate Prediction Center is forecasting an active or extremely active season this year. For the six-month hurricane season, which begins June 1, NOAA's Atlantic Hurricane Season Outlook says there is a 70 percent likelihood of 13 to 20 named storms (winds of 39 mph or higher), of which 7 to 11 could become hurricanes (winds of 74 mph or higher), including 3 to 6 major hurricanes (Category 3, 4 or 5; winds of 111 mph or higher). These ranges are well above the seasonal average of 12 named storms, 6 hurricanes and 3 major hurricanes.

NOAA's Climate Prediction Center announced that a below-normal hurricane season is most likely for the Eastern Pacific this year. The outlook calls for a 55 percent probability of a below-normal season, a 35 percent probability of a near-normal season and a 10 percent probability of an above-normal season. Seasonal hurricane forecasters are calling for a 70 percent chance of 11 to 16 named storms, which includes 5 to 8 hurricanes, of which 1 to 4 are expected to become major hurricanes (Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale).

Three climate factors that strongly control Atlantic hurricane activity are expected to come together to produce an active or extremely active 2013 hurricane season. These are:

A continuation of the atmospheric climate pattern, which includes a strong west African monsoon, that is



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Emerging Leaders, from page 10

Selection Process

Emerging Leader Interns are selected based on the following criteria:

- Solid scholastic achievement
- Strong writing skills
- Community service contributions
- Evidence of leadership skills
- Quality of paper application and, in some instances, interview performance

Application Materials

The completed **online application** must be submitted before midnight on **Friday, June 14, 2013**. Additional required materials must postmarked no later than the same deadline date. The following items will be requested through the online application:

1. A completed online application form
2. Answer the required short essay(s) given on the application
3. One (1) page resume listing extracurricular activities, honors, employment, community service and special skills
4. Three (3) letters of recommendation. We suggest at least one letter of recommendation be written by a dean, department chair, academic advisor, employer, and your BDPA Chapter President. Letters must be on official letterhead, state the recommender's title, and provide contact information. Letters of recommendation must be submitted by the deadline for your application to be considered complete.

Please follow the instructions found in the application. Hard copy letters sent to the organization as well as e-mailed recommendation letters sent to the internship e-mail address will not be accepted.

5. A recent photograph suitable for publication; i.e.: a cap and gown picture or other professional quality and professionally dressed photograph.

Additional Required Materials

All the above documents should be submitted through the online application. The following document is to be mailed to the organization. This document must be postmarked no later than the deadline date:

1. Official sealed transcripts from all institutions attended
Official transcripts should be mailed to the following address:

Emerging Leaders Internship Program
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Selections this year are highly competitive. Be sure to have a mentor or BDPA Chapter representative review your final submission with you. Applications are submitted to CBCF and reviewed by a CBCF selection committee. Finalists are selected and notified by CBCF.

Additional Information

For more information, please call (202) 263-2800 or send an e-mail to internships@cbcfinc.org



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Army Corps of Engineers	Most STEM majors	Winter 2013	BDPA Baltimore, BDPA Huntsville
CBCF/Walmart	Government Relations	June 14, 2013	See Emerging Leaders Walmart is a National BDPA Sponsor
CSC	Computer Science, C5ISR, STEM-IC (Intelligence & Cyber) able to obtain security clearances	Fall 2013/Winter 2014	BDPA Cincinnati, BDPA-DC, BDPA Northern Virginia, BDPA Hartford
Freddie Mac	Finance & Accounting, Instructional Design, HR	April 2014	BDPA-DC, BDPA Northern Virginia – Grad Student members with 3.3 GPA or higher
HBCU/MI Project Office	CS-STEM or STEM-IC; able to obtain security clearances	Fall, Spring, & Summer	BDPA Atlanta, BDPA-DC, BDPA Houston, BDPA Huntsville
HCSC**	Associate Intern(s)	March 2014	National BDPA Platinum Sponsor Illinois, Oklahoma, New Mexico & Texas
HP**	CS-STEM	Winter 2013	National BDPA Platinum Sponsor BDPA-DC, BDPA NoVA with 3.2 GPA
IBM	CS-STEM “Extreme Blue”	Fall, Spring, & Summer	BDPA-DC, BDPA Greater Columbia, BDPA Southern Minnesota, BDPA Triangle (RTP)
Johnson & Johnson**	All Majors	Winter/Spring 2014	National BDPA Platinum Sponsor Speak with J&J reps at Regional Events
Northrop Grumman	C4ISR, Engineering, Health IT, Manufacturing, STEM-IC	Fall, Spring, & Summer	BDPA-DC & BDPA Northern Virginia; Interns must have strong GPAs
Department of the Navy	All Majors	Fall 2013	NBDPA CONUS or NROTC
Raytheon	C4ISR, STEM-IC, Systems Engineering, Communications	Fall, Spring, & Summer	BDPA Huntsville, BDPA-LA, BDPA Mass-Metro West (Boston)
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****BOLD** text indicates National BDPA Platinum Sponsors now accepting BDPA Student applications with strong GPAs and updated resumes. NBDPA **HSCC and IT Showcase** Student Members and Alumni are encouraged to apply each semester.

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