

**SOUTHEASTERN VIRGINIA
BIOMEDICAL TECHNOLOGY PARTNERSHIP FORUM**

FUNDING OPPORTUNITIES

**John Emond
Innovative Partnerships Program
NASA Headquarters**

LEVERAGING RESOURCES

ACCESS TO

- **UNIQUE EQUIPMENT AND FACILITIES**
- **TECHNICAL EXPERTISE, RESEARCH AND DEVELOPMENT THROUGH LICENSES, SOFTWARE USE AGREEMENTS, PARTNERSHIPS AND OTHER COLLABORATION**
- **COLLABORATION ALSO PROVIDES EXPERIENCE**
- **USE OF ORGANIZATIONS TO LEVERAGE AND EXPLORE RESOURCES AND FUNDING OPPORTUNITIES SUCH AS SEED FUNDING, INCUBATOR ASSISTANCE, ETC.:**
 - **CENTER FOR INNOVATIVE TECHNOLOGY www.cit.org**
 - **VIRGINIA ECONOMIC DEVELOPMENT PARTNERSHIP www.yesvirginia.org**
 - **HAMPTON ROADS ECONOMIC DEVELOPMENT PARTNERSHIP www.hreda.com**

LEVERAGING RESOURCES

- **HAMPTON ROADS RESEARCH PARTNERSHIPS** includes a cluster focus on bioscience: www.hamptonroadsrp.org
- **HAMPTON ROADS TECHNOLOGY COUNCIL** includes a web site for incubator opportunities www.hrtc.org
- **VIRGINIA BIOTECHNOLOGY ASSOCIATION** www.vabio.org

FEDERAL LABORATORY CONSORTIUM

- **NATIONAL ORGANIZATION** www.federallab.org
- **MID-ATLANTIC REGION** www.flcmidatlantic.org

UNIVERSITIES/ACADEMIA

- **Eastern Virginia Medical School** www.evms.edu
- **Old Dominion University** www.odu.edu
- **College of William and Mary** www.wm.edu

***SMALL BUSINESS INNOVATIVE RESEARCH/SBIR
SMALL BUSINESS TECHNOLOGY TRANSFER/STTR***

**SBIR/STTR COMPETITIVE FUNDING PROGRAMS TO FOSTER
TECHNOLOGY DEVELOPMENT WHILE PROMOTING SMALL BUSINESS
DEVELOPMENT: WWW.SBA.GOV**

➤ SBIR

- **Company size limited to 500 employees**
- **American owned and independently operated**
- **Three phase awards**
 - **Phase I award of \$100K, 6 month feasibility assessment**
 - **Phase II award of \$750K, up to 2 years to expand Phase I results; R&D work performed and effort to commercialize**
 - **Phase III “graduation” into marketplace. No further SBIR funding but non-SBIR procurement advantage for government contracting without further competition.**

***SMALL BUSINESS INNOVATIVE RESEARCH/SBIR
SMALL BUSINESS TECHNOLOGY TRANSFER/STTR***

➤ STTR COLLABORATION ACADEMIA AND INDUSTRY

- **Company size limited to 500 employees**
- **American owned and independently operated**
- **Partner with non-profit research institute**
 - **Phase I award up to \$100K for one year to explore feasibility**
 - **Phase II award up to \$750K for up to two years to develop R&D and commercial plan**
 - **Phase III “graduation” no further STTR funding but non-STTR procurement advantage for government contracting without further competition.**

➤ NASA SBIR PROGRAM CONTACTS

- **Ray Turcotte (rheal.p.turcotte@nasa.gov) NASA Langley Research Center contact**
- **John Emond (john.l.emond@nasa.gov) for contact to the SBIR/STTR HQ program**

NIH SBIR CURRENT SOLICITATIONS

www.grants.nih.gov/grants/funding/sbir.htm

- COMPUTATIONAL TOOLS FOR RESEARCH IN NEUROSCIENCE, BEHAVIORAL SCIENCE AND MENTAL HEALTH
 - Close Date 1/8/2011 Solicitation: PA-07-424

- LAB TO MARKETPLACE: TOOLS FOR BIOMEDICAL AND BEHAVIORAL RESEARCH
 - Close Date: 5/8/2011 Solicitation: PA-08-114

- LAB TO MARKETPLACE: TOOLS FOR BRAIN AND BEHAVIORAL RESEARCH
 - Close Date: 1/8/2011 Solicitation: PA-08-071

- INNOVATIONS IN BIOMEDICAL COMPUTATIONAL SCIENCE AND TECHNOLOGY INITIATIVE
 - Close Date: 9/8/2012 Solicitation: PAR-07-160

***CENTER FOR COMMERCIALIZATION
OF ADVANCED TECHNOLOGY***

- **DOD PARTNERSHIP EFFORT: ACADEMIA, GOVERNMENT, INDUSTRY**
 - **“Fast track” enabling technologies for DOD and Homeland Security defense needs, First Responders, commercial marketplace.**
 - **Two sites: San Diego and Southern California/San Bernardino.**
 - **Though based in California, solicitations are open nation-wide.**
 - **Funding levels relatively small, \$75K, but offer networking opportunity with a much larger base of potential opportunities**
 - **Topic areas include surveillance, robotics but also life sciences:**
 - **Combat Casualty care** * **Diagnostics**
 - **Vaccines** * **Devices**
 - **Therapeutics** * **Biological Threat Detection**
 - **CCAT San Bernardino Office of Tech Transfer & Commercialization**
Email: ottc@csusb.edu web site: www.ccatsocal.org or www.csusb.edu
 - **CCAT San Diego Center Commercialization of Advanced Technology**
Email: ccat@foundation.sdsu.org web site: www.ccatsandiego.org

***NATIONAL INSTITUTE OF
STANDARDS AND TECHNOLOGY TIP***

**➤ 2010 TECHNOLOGY INNOVATION PROGRAM (TIP) TO
INSPIRE REVOLUTIONARY MATERIALS ADVANCES**

- **Competition for high risk, high reward research funding involving manufacturing and biomanufacturing: materials advances and critical processes**
- **~\$25M is available for first-year funding for 25 new TIP projects**
- **Open to single companies or through joint ventures**
 - **Up to \$3M over three years for single company projects**
 - **Up to \$9M over five years for a joint venture**

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY TIP

- **Research focus in three areas**
 - **Material advances, addressing how materials are moved from laboratory to full production**
 - **Predictive modeling, modeling and computation to streamline production scale-up of new materials by predicting their performance**
 - **Critical process advances, novel production techniques to improve processing new materials or improve production of existing materials**

- **Due date July 15, 2010 11:59 pm**
 - **Proposals can be sent electronically through Grants.Gov**
 - **Catalog of Federal Domestic Assistance Program 11.613**
 - **On Paper to National Institute of Standards and Technology, Technology Innovation Program, 100 Bureau Drive, Stop 4750, Gaithersburg, MD 20899-4750**

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY TIP

- **ADDITIONAL INFORMATION SOURCES FOR COMPETITION:**
 - **Government Grants Web Site:** <http://www.grants.gov>
 - **TIP WEB SITE:** http://www.nist.gov/tip/cur_comp/index.cfm
 - **White paper on manufacturing and biomanufacturing available on TIP web site:** http://www.nist.gov/tip/cur_comp/index.cfm
 - **2010 TIP proposal preparation kit,**
http://www.nist.gov/tip/cur_comp/index.cfm
 - **Technology Innovation Program,** www.nist.gov/tip

***DEPARTMENT OF THE ARMY
RESTORATIVE MEDICAL TECHNOLOGY
FOR WOUNDED WARFIGHTERS***

- **DOD GULF WAR ILLNESS CLINICAL TRIAL**
 - Close Date 8/4/2010, Solicitation: W81XWH-10-GWIRP-CTA
- **DOD GULF WAR ILLNESS INNOVATIVE TREATMENT EVALUTATON**
 - Close Date 8/4/2010, Solicitation: W818XWH-10-GWIRP-ITEA
- **DOD PH/TBI COGNITIVE REHABILITATION FOR TRAUMATIC BRAIN INJURY CLINICAL TRIAL AWARD**
 - Close Date 9/7/2010, Solicitation: WH1XWH-10-PH-TBI-RP-CR-CTA
- **USA MEDICAL RESEARCH & MATERIAL COMMAND BROAD AGENCY ANNOUNCEMENT**
 - Close Date 9/30/2010, W81XWH-BAA10-1
- **DOD ORTHOPAEDIC REHABILITATION CLINICAL CONSORTIUM**
 - Close Date: 10/29/2010, Solicitation: W8XWH-10-PRORP-ORCCA

NATIONAL INSTITUTES OF HEALTH

WWW.NIH.GOV

- **QUANTITATIVE IMAGING FOR EVALUATION OF RESPONSES TO CANCER THERAPIES**
 - Close Date: 09/07/2011, Solicitation: PAR-08-225

- **QUICK TRIALS FOR IMAGING AND IMAGE-GUIDED INTERVENTIONS: EXPLORATORY GRANTS (R21)**
 - Close Date: 4/11/2011 Solicitation: PAR-08-147

- **NON-INVASIVE METHODS FOR DIAGNOSIS AND PROGRESSION OF DIABETES, KIDNEY, UROLOGICAL, HEMATOLOGICAL AND DIGESTIVE DISEASES AND HYPERTENSIVE DISORDERS**
 - Close Date: 5/7/2010, Solicitation: PA-09-181

OTHER EXAMPLES OF BIOMEDICAL SOLICITATIONS

- ***DOD PEER REVIEWED CANCER RESEARCH PROGRAM, TRANSLATIONAL NEW INVESTIGATOR***
 - Close Date: 10/20/2010, Solicitation: W81XWH-10-PRCRP-TNIA
- ***NATIONAL SCIENCE FOUNDATION BIOPHOTONICS, ADVANCED IMAGING AND SENSING FOR HUMAN HEALTH***
 - Close Date: 9/23/2010, Solicitation: PD-10-7236
- **GENERAL WEB SITE FOR FEDERAL GRANTS**
[HTTP://WWW.GRANTS.GOV/](http://www.grants.gov/)

CONCLUSION:

MULTI AND SINGLE AGENCY FUNDING OPPORTUNITIES EXIST

SBIR/STTR IS A BROAD, MULTI-AGENCY BASE FOR FEDERAL GOVERNMENT FUNDING OPPORTUNITIES TO SMALL BUSINESSES AND UNIVERSITIES

NETWORKING IS KEY TO TRACKING AND RESPONDING TO FUNDING OPPORTUNITIES IN BIOMEDICAL RESEARCH AND DEVELOPMENT. ATTAIN AND SUSTAIN LINKS TO:

- **FEDERAL AGENCIES/LABS**

- **UNIVERSITIES MOTIVATED TO COMMERCIALIZE EMERGING TECHNOLOGY FROM ACADEMIA AND WHO SEEK TO PARTNER**

- **ECONOMIC DEVELOPMENT ORGANIZATIONS THAT CAN SERVE AS A BRIDGE CONNECTING FEDERAL AND UNIVERSITY LABS AND THE PRIVATE SECTOR**