

ANNUAL MEETING PSM WORKSHOP
Creative Funding Sources

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
EXTERNAL FUNDING AGENCIES—One-Time Start Up Sources				
US Dept Health & Human Services ARRA 2009	Information Technology Professionals in Health Care: Training Grants Furnishing Academic Program Development Assistance for University-Based Training of Health Information Technology Professionals (93.721) http://healthit.hhs.gov/portal/server.pt/gateway/PTARGS_0_10741_909982_0_0_18/University%20Based%20Training%20FOA%2012172009%20508.doc	Produce health IT workers to implement electronic health record technology incentivized via HITECH Act. Awarded to <i>new</i> (NOT enrolled on/before 12/17/09) <i>students</i> entering <i>new</i> or <i>expanded</i> programs that can be completed in ≥ 1 yr to fill these 6 roles: <ul style="list-style-type: none"> • Clinician/Public Health Leader • Health Information Management & Exchange Specialist • Health Information Privacy & Security Specialist • Research & Development Scientist • Programmers & Software Engineer • Health IT Sub-specialist Proposals must address at least 3 roles.	1/25/10	\$32M About 8 1-time training grant awards of 39 months (\$4M max): \$6500/trainee prog devel costs \$10K tuition/fees for 1-yr programs Up to \$16K tuition/fees + \$15K stipend + \$2K health insurance annually for 2-yr programs May be consortium led by a 4-yr institution (\$6M max award). Preference to <i>existing</i> programs in health or health-related informatics, health or health-related information management, health or health-related information technology, or health or health-related information science. Ratio of 1-yr trainee positions to 2-yr positions must be 5:1. Start April, 2010. Must enroll first students fall, 2010-11.

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
NSF S-STEM	<p>Directorate for Education & Human Resources, Division of Undergraduate Education (09-567)</p> <p>Scholarships in Science, Technology, Engineering & Math</p> <p>http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5257&org=DUE&from=home</p>	Scholarships for academically talented, financially needy domestic students enabling them to enter workforce upon completion of associate, bachelor's, or graduate degree in science & engineering.	<p>LOI (optional) 7/14/10 & 7/13/11</p> <p>Full proposals 8/12/10 & 8/11/11</p>	<p>Up to 5 year funding period Up to \$10K/student/year, 4 year max \$225,000 max annual budget (\$600K total) About 80-100 awards per year</p> <p>“Preparing Promising Students for the 21st Century Scientific Workforce,” University of Connecticut. \$5000/semester based on need.</p> <p>Middle Tenn State Univ Masters Scholarship Program, \$599,850 Scholarships for science, technology, & math students pursuing Mstr of Science in Biology, Chemistry, or Professional Science (with concentrations in Biostatistics or Biotechnology).</p>
National Science Foundation	<p>Division of Social and Economic Sciences (08-530)</p> <p>Ethics Education in Science and Engineering (EESE)</p> <p>http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13338</p>	<ul style="list-style-type: none"> • Improve ethics education for graduate students in science & engineering fields. • Results of the EESE program will contribute to resources that institutions may utilize in complying with Sec 7009 of the AmericaCOMPETES Act (H.R. 2272), which requires institutions to "provide appropriate training oversight in the responsible and ethical conduct of research." 	3/1/10	<p>6-12 awards \$2.4M Encourages university-industry collaborations. 1 proposal per institution</p> <p>San Diego State Univ--“Ethics Education for PSM Programs.” \$300,000 3-yr grant to create ethics education materials in...PSM...programs in comp, bio, and environ sciences.</p>

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
National Science Foundation	Office of International Science and Engineering (08-603) East Asia & Pacific Institutes for U.S. Graduate Students (EAPSI) http://www.nsf.gov/pubs/2008/nsf08603/nsf08603.htm#summary	<ul style="list-style-type: none"> • 8-10 week summer research experience in Australia, China, Japan, Korea, New Zealand, Singapore or Taiwan • Enrolled in research-oriented graduate program 	2 nd Tues in Dec annually	195 awards annually \$1,950,000 \$5000 stipend, airfare, orientation in D.C. Foreign organizations provide living expenses abroad.
National Science Foundation	Education & Human Resources, Division of Undergraduate Education (10-505) Federal Cyber Service: Scholarship for Service (SFS) http://www.nsf.gov/pubs/2010/nsf10505/nsf10505.htm?WT.mc_id=USNSF_25	<ul style="list-style-type: none"> • Increase number of qualified students entering fields of information assurance and computer security & to increase capacity of US education to produce professionals to meet society needs <ul style="list-style-type: none"> ○ Scholarship track ○ Capacity Building track 	2/2/10	6-8 Scholarship awards 7-9 Capacity Building awards \$11,330,000 FY10 CAE/IAE or CAE-R designation 2 proposals per institution
Department of Labor	Employment & Training Administration (SGA/DFA PY 09-01) http://www.doleta.gov/grants/pdf/SGA-DFA-PY-09-01.pdf	<ul style="list-style-type: none"> • Worker training for unemployed, dislocated workers, incumbent workers including low-wage workers • One category is health information technology (mgt of health information) • Public entities or nonprofit entities • Must involve strategic partnership (see list) • Result in certificate or degree • Integrate occupational training with basic skills training 	10/5/09	Health Care & Other High Growth & Emerging Industries (e.g. info tech, advanced manuf, wireless & broadband deployment, transportation & warehousing, biotechnology) 45-65 grants of \$2-5 M \$25 M to auto-related restructuring SUNY one of several regional collaborators in \$4M project: Recovery Act-Health Care Sector & Other High Growth & Emerging Industries (SGA-DFA-PY-09-01). Lead organization is Syracuse Chamber of Commerce.

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
Department of Labor	Employment & Training Administration (SGA/DFA PY 08-17) http://frwebgate6.access.gpo.gov/cgi-bin/PDFgate.cgi?WAISdocID=19706380859+0+2+0&WAIAction=retrieve	“...to collect, analyze, and disseminate labor market information, and to enhance the labor exchange infrastructure for careers within the energy efficiency and renewable energy industries.”	8/14/09	\$50M for the Workforce Investment agencies in states Grants \$750K-\$1.25M to indiv states \$2-4M to collaborations
Department of Energy	Office of Science Graduate Fellowship Program	“...support outstanding students to pursue graduate training in basic research in areas of physics, biology, chemistry, mathematics, engineering, computational sciences, and environmental sciences relevant to the Office of Science...”		<u>PSM students not eligible.</u>
Department of Energy	Workforce Training for the Electric Power Sector (DOE-FOA-0000152) https://www.fedconnect.net/FedConnect/?doc=DE-FOA-0000152&agency=DOE	Topic A, Developing and Enhancing Workforce Training Programs for the Electric Power Sector \$20M for STEPS 8-10 STEPS awards up to \$2.5M/award Awards up to 3 yrs	11/30/09	Topic A Strategic Training & Education in Power Systems (STEPS): Applications sought that develop cross-disciplinary electric power systems training programs at the university and college-level, that lead to degrees or certificates that span the breadth of science, engin, soc sci, econ, and other topics needed by scientists, engineers, innovators, entrepreneurs, and industry leaders as the traditional power system transforms into a national, clean-energy smart grid. Applications may also include development of certificate programs for training technicians and teachers in STEM subjects, with a focus on electric power systems.

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
Department of Education	Fund for Improvement of PostSecondary Education (FIPSE) Comprehensive Program (CFDA 84.116 V) http://www.ed.gov/programs/fipsecomp/index.html	Projects that propose innovative efforts to expand graduate offerings at colleges that enroll a significant number of Hispanic American students.	6/18/09	40 awards \$300,000 2-yr \$150,000 1-yr Sistema Universitario Ana G. Mendez, Inc. DBA Universidad del Turabo, PR. Devel PSM in biopharmaceutical manufacturing, \$299,652 San Diego State University, PSM Bioinformatics & medical Informatics, \$299,584
Department of Education	Fund for Improvement of PostSecondary Education (FIPSE) Master's Degree Programs at Historically Black Colleges and Universities (CDFA 84.382G) http://www.ed.gov/programs/hbcumasters/index.html	Supports master's degree programs in math, engineering, physical/natural sci, computer sci, info technology, nursing, allied health, or other scientific disciplines in which African Americans are underrepresented. Program must have students enrolled at time of application. Institution may use not more than 10% of institution's grant for development of new qualified master's degree program.	Formula	\$500K/year—partly to support the PSM Elizabeth City State University, \$3M (6 years - \$500K/year) to establish and/or strengthen master's degree programs, including a PSM in applied mathematics.
Department of Education	Fund for Improvement of PostSecondary Education (FIPSE) Comprehensive Program (CFDA 84.116) http://www.ed.gov/programs/fipsecomp/index.html	The program supports and disseminates innovative reform projects that promise to be models for improving the quality of postsecondary education and increasing student access. <ul style="list-style-type: none"> • Inclusive • Action oriented • Bold thinking; innovation • Responsive to practitioners 	NA	UMUC—"Web-Based Mentoring Program Creating Industry-Academe Synergy." \$600K, 4-yr grant. To support development of online mentoring program for Biotechnology Studies PSM. Rutgers—"Developing Leaders for New Jersey's Science-Based Industries: Creating a Statewide System of PSM Degrees"

SOURCE	PROGRAM	QUALIFIERS	DUE DATE	NOTES
Department of Veterans Affairs	Post-9/11 GI Bill www.gibill.va.gov	Supports veterans with 90 days to 36 months active duty since 9/10/01. <ul style="list-style-type: none"> • Cost of tuition & fees ranging from 40-90% depending on length of qualifying service • Housing allowance • Books/supplies up to \$1000/yr 		Yellow Ribbon provides VA matching to institutional contribution for tuition costs above limit. ACE http://www.todaysgibill.org/ Cal State system veterans initiative to leverage VA support program.
INTERNAL/ LOCAL FUNDING STRATEGIES				
STRATEGY		COMMENTS		
Differential tuition Georgia Tech		<ul style="list-style-type: none"> • Charged as % of student's ordinary bill • Is <i>never</i> waived • \$ returned directly to program • Subject to rules governing use of state funds Bioinformatics program uses \$ to support student research with faculty member No decline in enrollment as result of tuition differential Prosthetics and Orthotics mandatory \$2,275 flat fee for clinical equipment		
Fee for privilege(s)		<ul style="list-style-type: none"> • For access to hosting interns • Advisory board membership 		
University of Connecticut Tuition revenue sharing		<ul style="list-style-type: none"> • Standard tuition rate but a % is returned directly to the PSM • \$ returned used to cover the "plus" courses 		
Self-sustaining model University of Utah		<ul style="list-style-type: none"> • Tuition revenue generated by <i>plus</i> courses returned to program • University block grant to match tuition revenue generated by <i>science</i> courses • <i>Proposed</i> PSM program fee \$500/semester, \$1000/year 		
California Institute for Regenerative Medicine http://www.cirm.ca.gov/		CSU Channel Islands, Biotechnology and Bioinformatics PSM "Curriculum Development and Implementation of Stem Cell Technology and Laboratory management Emphasis in an Established MS Biotechnology and Bioinformatics Program." 1) Assist in developing 4 new graduate courses, and (2) Provide support for 30 one-year internships and an intensive Stem Cell Training course at Scripps Research Institute. Also develop a general education course on stem cell technology with 3 local community colleges.		