**Title V HSI STEM Competition**

Within the next few weeks, the U.S. Department of Education is expected to announce a new round of competition under the Hispanic-Serving Institutions (HSI) STEM initiative.

The purpose of the Hispanic-Serving Institutions - Science, Technology, Engineering, or Mathematics (HSI STEM) and Articulation Programs is to: (1) increase the number of Hispanic and other low-income students attaining degrees in the fields of science, technology, engineering, or mathematics; and (2) to develop model transfer and articulation agreements between two-year and four-year institutions in such fields.

**Five Year awards** will be made in the form of:

**Individual Development Grants**: to increase the number of Hispanic and other low-income students attaining degrees in the fields of science, technology, engineering, or mathematics; Funding: $ $775,000/yr x 5 years totaling $3.8 million.

**Cooperative Arrangement Development Grants**: propose to develop model transfer and articulation agreements between two-year HSIs and four-year institutions in such fields. Funding: $1,200,000/year x 5 years totaling $6.0 million.

**The CCRAA HSI STEM program will support**:

1. Faculty development;

2. Development and improvement of academic programs;

3. Acquisition of equipment for use in strengthening academic programs; and

4. Student support services.

**Eligible BMCC Departments**

* CIS
* Mathematics
* Engineering
* Science
* Media Arts and Technology

Under the new RFP it’s possible that Social Sciences and Teacher Education could also be included.

BMCC is able to submit only one proposal under the Cooperative Arrangement Development Grant and is requesting, a *White Paper* from each of the programs listed above for potential projects. Please forward the *White Papers* to the attention of John Montanez at [JMontanez@bmcc.cuny.edu](mailto:JMontanez@bmcc.cuny.edu) by ***Wednesday, December 23rd, 2015***. The papers will be reviewed by the college cabinet with a formal decision made by ***Friday, January 7th***.

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| Title V HSI STEM CompetitionBMCC Concept Paper | | | December 21, 2015 | |
| [Janet Esquirol, Assistant Professor, Media Arts and Technology Department,  CUNY BMCC] | |
| [Contact Information: 199 Chambers Street, Office S622E, 212-220-8306, jesquirol@bmcc.cuny.edu] | |
| Project Title: | T.E.A.M.S. in Media Arts and Technology *for Hispanic and other low income Students* (Technology, Engineering, Art, Math and Science) | | | |
| BMCC Strategic Goal Alignment: | **Strategic Priority 1:** Excellence in Teaching, Research, and Learning  *Goal*: Foster a culture of scholarly rigor and creativity for students, faculty, and staff.  *Objectives*:  1.3 Expand the use of technology to facilitate student learning, improve student services and ensure technologically proficient students, faculty and staff.  1.4 Strengthen curricular offerings to facilitate transition to four year institutions and address current and future workforce needs.  **Strategic Priority 2**: Student Success and Retention*Goal*: Support a learning environment and culture that promotes student success. *Objectives*:  2.1 Provide comprehensive and cohesive student services that maximize student success.  2.2 Provide timely and appropriate guidance for all students, with emphasis on freshmen.  2.4 Identify barriers to student success and implement strategies to remove them. 2.5 Recognize and celebrate student success inside and outside the classroom.  **Strategic Priority 4**: Community Engagement and Economic Development*Goal*: Enhance college visibility and enhance stakeholder participation.  *Objectives*:  4.1 Develop strategic partnerships with the public and private sectors.  4.2 Strengthen and broaden the connections between the college, NYC public high schools and other constituencies.  4.3 Improve marketing efforts to address college and community needs.  4.4 Provide greater opportunities for student, faculty and staff to engage with the local and world community.  4.5 Increase alumni support and participation in the life of the college. | | | |
| Partnering Senior College: |  | Senior College Official Contacted | | [Contact Information: Address, Phone, Email] |
| **Directions:** for ease of reading by the reviewers, please provide information on elements. Please be concise and limit you answer(s) to no more than three pages. Use no less than a 12 point font and single space the narrative. **Deadline for submission is Wednesday, December 23rd, 2015** | | | | |
| ***1. Problem* Statement/Project Description;** the extent to which specific gaps or weaknesses in services will be addressed by the proposed project.  ***T.E.A.M.S****. in Media Arts and Technology for Hispanic and other low income Students* is a project proposing to address gaps and weaknesses in services for students in the Media Arts and Technology department using a model that would be easy to adopt in other departments. This plan provides expanded access to technology as an incentive for greater academic achievement. ***T.E.A.M.S****. in Media Arts and Technology* also plans to provide enhanced student support to increase retention and graduation from our majors at BMCC.  Gaps/Weaknesses:  GRADUATION:  Limited lab space for MEA students. For example MEA department is unable to run evening sections of all upper level production courses due to lack of properly equipped classrooms.   Insufficient access to quiet MEA optimized lab workspaces.  Insufficient access to Apple computers running Adobe Creative Cloud.  RETENTION:  Lack of ‘one on one’ career and portfolio advising with department faculty {could we create an initiative that also brought in adjunct faculty?}  Limited or lack of family support for student {could we create programs that target the student’s family? Maybe family orientation events, or more complex programs, for example: give students tuition wavers for high academic excellence that the student can give to a close family member.}  Lack of cohort based learning academies in our department.  Too few female students in technology.   * We’d like to adopt and customize OPENLAB from CityTech which is open source technology we believe we could use at BMCC to: Promote more cross discipline collaboration on campus. * Increase peer review of portfolio work in class * Customize a gradebook platform for our department   PIPELINE/ARTICULATION:  Pathways from Middle School to High School to BMCC on to a BA/BS or BFA need to be strengthened for Media Arts and Technology students. Many programs in our field require a portfolio for entry, as does the internship & career pathway. Revise curriculum to mandate portfolio work in our degree and facilitate getting middle/high school students to see these portfolios created at BMCC with student focused events. Revise and build new articulation agreements based on our modified curriculum and how our portfolio prepares the student for the school they’re transferring to. Provide summer workshops for K-12. | | | | |
| **2. *Quality of the Project Design*;** list the goals, objectives, and outcomes to be achieved by the proposed project and indicate how they are aligned with the college’s 2015 strategic priorities. | | | | |
| ***3. Quality of Personnel*; the** qualifications, including relevant training and experience, of the key project personnel.  Who are the personnel?  **Lead PIs:**  Chris Stein  Janet Esquirol  Jody Culkin**?**  Anna Pinkas**?**  Tassos Rigopoulos**?**  Spoke to Shari Mekonen on 12/21 {would like to be resource but would rather not be a lead person \*she led a million dollar NSF grant that was successful and is a full professor}  Shari suggested that the whole department should be included – just list everyone alphabetically that is full time, that way anyone who is interested can get involved if they’d like to offer something.   * Prof. Carol Basuru * Prof. Jody Culkin * Prof. Janet Esquirol * Prof. Revital Kaisar * Prof. Cynthia Karasek * Shari Mekonen * Prof. Anna Pinkas * Prof. Anastassios Rigopoulos * Prof. Jim Sayegh * Prof Christopher Stein -Chairperson of MEA Dept * Prof. M. George Stevenson * Prof. Jamal Sullivan * Prof. Philip Weisman | | | | |
| ***4. Quality of Project Services*;** the extent to which the services to be provided by the project reflect up-to-date knowledge from research and effective practice. | | | | |
| ***5. Adequacy of Resources*;** where will the project be housed and are there facilities, equipment, supplies, and other resources in place to carry forth this project?  The project would be housed within the Media Arts and Technology department at CUNY BMCC. We have facilities in Fiterman and 199 Chambers in the Media Center that can help carry forth this project, but the proposal calls for adding a laptop program for upper level students. The proposal also suggests using OPENLAB. Facilities for symposia and conferences could include those in Fiterman, Richard Harris Terrace, and/or TPAC. | | | | |
| ***6. Senior College Partnership*;** the relevance and demonstrated commitment of the partnering institutions towards the proposed project to the implementation and success of the project.  We could probably find ways to partner with programs we articulate with like CityTech, Queens College, City College. Could also probably work with SPS, York & Lehman? But sounded like we were more interested in the individual grant than the collaborative one? | | | | |
| **7. Quality of the Management Plan;** the extent to which the time commitments of the key project personnel are appropriate and adequate to meet the objectives of the proposed project. | | | | |

