**GAVILAN COLLEGE**

**Grant Preliminary Approval Form (AP3280)**

**Grant Application Form B**

Grant Application Form B is for grants whose application timelines -- from initial RFA date to application deadline -- are less than three months. If a grant qualifies for Form B, application development may begin prior to the approval of Form B by the President’s Council. Grants for less than $100,000 are exempt from this application process.

This form submitted by: E. Cervantes, Ed.D. Date:2/20/19

Name of Grant: **S- STEM (NSF 17-527) National Science Foundation Scholarships in Science, Technology Engineering & Mathematics**

Original grant posted (available) date: **February 15th, 2019**

Submission deadline:  **Wednesday, 29 March 2019**  Award date: TBA

Grant authors: **M.J. Johnson**.

Grant Amount requested: **$650,000**

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| **A. Goals and intended outcomes of the grant:**The S-STEM program provides Institutions of Higher Education (IHEs) with funds for scholarships to encourage and enable low-income academically talented students who demonstrated financial need to enter the workforce or graduate study following completion of associate, or baccalaureate, in STEM. Recognizing that scholarships alone cannot address low retention and graduation rates in STEM, the program also supports the implementation and testing of existing effective evidence-based curricular and co-curricular activities, featuring: (1) close involvement of STEM faculty, (2) student mentoring, (3) provisions of academic and student support, (4) adaptation of existing high-quality evidence-based practices, and (5) recognition of S-STEM Scholars.The goal is to build upon the MESA Program Model, STEM III model and Natural Sciences Division to further enhance a strategic approach to serving STEM students at Gavilan College. More specifically, this opportunity will build on the success of the current STEM’s Mentorship Program and STEM Academies and MESA’s best practices for serving first generation and low-income students over the last 19 years at Gavilan College, which have included a holistic approach to serving students. In summary, students that receive scholarships will be required to participate and complete the requirements for the STEM Academies, Mentorship opportunities and the MESA model Student Contract which outlines support activities important to the success of STEM students. Each of these areas support a different aspect of the student's success and will work in a coordinated effort to help students in their STEM disciplines. Building on these two areas, this grant opportunity will give STEM at Gavilan College the ability to achieve the following goals. 1. Provide low-income STEM students with scholarships in a high unit intense major.
2. Increase STEM student retention, student success and graduation rates.
3. Test strategies for systematically exploring student academic and career pathways in STEM in ways that are congruent with Gavilan College. For example, using a guided pathway scaffolding for Engineering or Biology majors that give students holistic support to be successful.
4. Implement a successful National Science Foundation grant that makes the college eligible for larger grants that can support STEM efforts
5. Help to meet College wide goals in the Strategic Plan, Vision for Success, and Equity Plan

The STEM disciplines supported by the S-STEM program include: * Biological sciences (except medicine and other clinical fields);
* Physical sciences (including physics, chemistry, astronomy, and materials science);
* Mathematical sciences;
* Computer and information sciences;
* Geosciences;
* Engineering; and
* Technology areas associated with the preceding disciplines (for example, biotechnology, chemical technology, engineering technology, information technology, etc.)
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| **B. Connection of the grant to SLOs, ILOs, Education, Facilities, Technology, Strategic Master Plan(s):**This grant aligns with the new Vision for Student Success, Current and potentially new strategic plan that aligns with the vision for student success and the new funding formula.

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| Summary of S-STEM Grant Goals1. To increase the recruitment, retention, student success and graduation (including transfer) of low-income academically talented students who demonstrated financial need and are pursuing associates and bachelor's degrees in STEM.
2. Implement and study models of effective evidence-based practices and/or strategies that contribute to the understanding of evidence-based practices that affect the recruitment, retention, student success and academic/career pathways and/or degree attainment in STEM.
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| Strategic Plan | **Equity Plan** | **Vision for Student Success** |
| STRATEGY #2Increase student completion and meet institutional goals, improve student services and enhance curriculum and programs.  Goal #1 Increase student, institutional and programmatic outcomes as defined by Institutional Effectiveness, Equity, and other college benchmarks. Goal 4 Evaluate gaps in student outcomes and identify and implement programs and services to increase student achievement | 1.**Reduce equity gap in completion for the following groups at Gavilan.** * Asians
* Black or African Americans

**2.Retention for the following groups*** Males
* Asian
* Black of African Americans
* Whites

**3.Transfer to a four-year university** * Hispanics
 | * Increase by at least 20 percent the number of CCC students annually who acquire associate degrees, credentials, certificates, or specific skill sets that prepare them for an in-demand job.
* Increase by 35 percent the number of CCC students transferring annually to a UC or CSU.
* Reduce equity gaps across all of the above measures through faster improvements among traditionally underrepresented student groups, with the goal of cutting achievement gaps by 40 percent within 5 years and fully closing those achievement gaps within 10 years.
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| **C. Impact on staffing: identify primary positions to be created and/or reassign time allocated to existing staff.** No new positions will be created. New reassign time will not be allocated.  |

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| **D. Impact on space--possible displacement of existing programs and/or staff:**There will not be a space impact. We will use existing facilities.  |

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| **E. Impact on institutional budget-- 50% law, institutional matching contributions, increase/decrease in enrollments, potential for adding to ongoing costs, restricted versus unrestricted funds; requirements for expending:**No impact on 50% law given that additional staffing will not be added using these grant funds. |

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| **E.**  Identified Manager, Activity Director, for Grant (beyond administration) if any:Eduardo Cervantes will be the identified Manager/Administrator Marla Dresch – Co Principal Faculty Investigator  |

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| **F.**  Is there an Impact on specialized categorical programs and non-categorical programs?The impact will help to strategically synthesize activities from the STEM III grant and MESA Grant/Programs with the addition of providing Gavilan College STEM students with additional support by providing them with STEM Grants to help with the cost of attending college. We anticipate that the efforts will help the programs create successful outcomes required by the funding sources and by the Chancellors office’s Vision for Student Success.  |

**Shared Governance Routing**

*For Review*

Department Chair (If Applicable): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Division Dean or Responsible Administrator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Budget Committee Chair: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Academic Senate President: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

President’s Council: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*For Approval*

President/Superintendent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_