

KickStarter Program

Technical Assistance Grant

for

Community College Hispanic Serving Institutions

Cohort 2

Los Angeles Harbor College

STEM Pathway Plan



WHAT IS KICKSTARTER

- **Technical Assistance grant provided by the National Science Foundation (NSF)**
 - Step-by-step support to develop competitive proposals using NSF principals
 - **NSF grant funds are to conduct research on best practices of existing campus activities** – findings have the potential to contribute to intellectual merit
- **Kickstarter – Process applicable toward other funding opportunities for LAHC**
 - Research findings can be used to solicit grants from other funding sources for General Ed and Career Technical Education programs

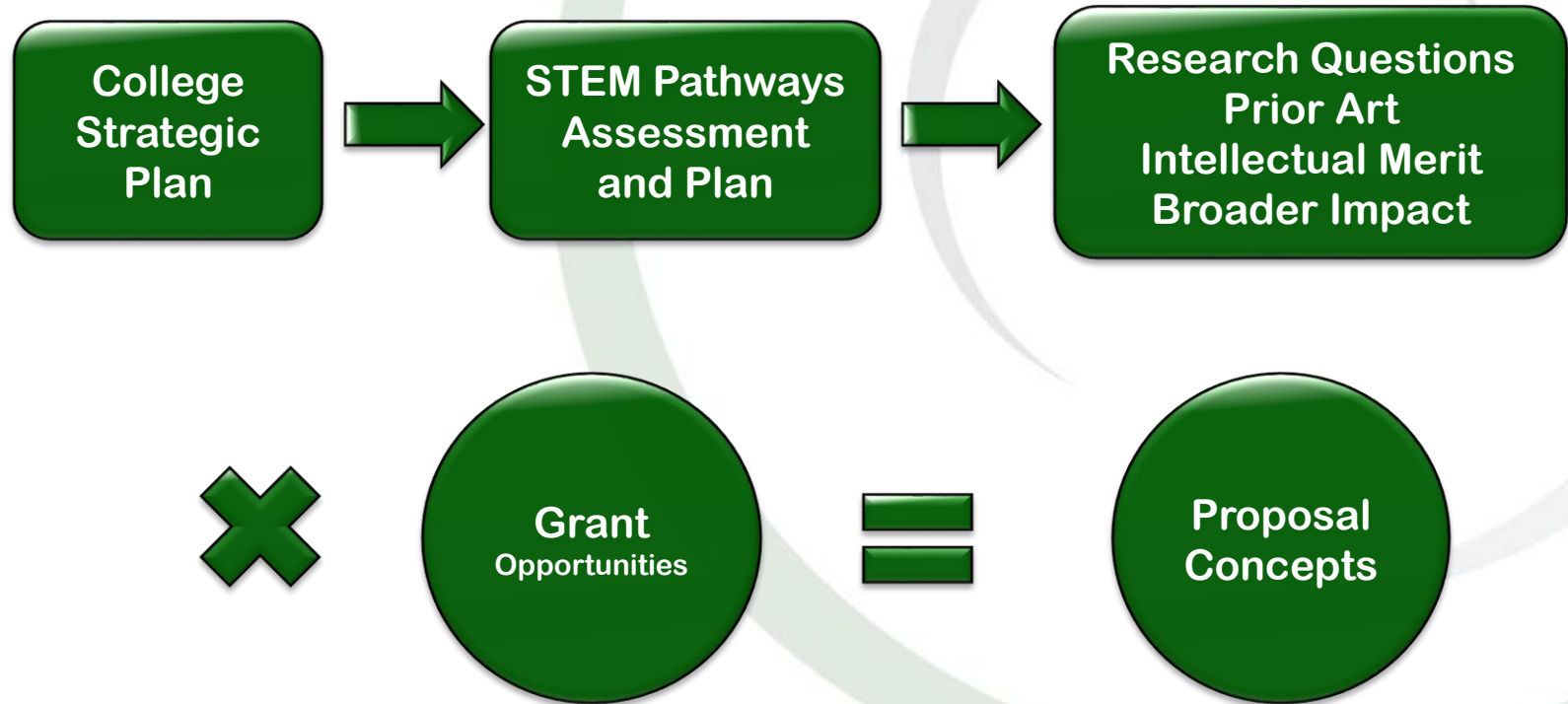
SELECTION PROCESS

- **Competitive Process** - 1 of 6 community colleges selected across the nation
 - Currently Hispanic Serving Institution
 - STEM Successes
- **Benefit to LAHC**
 - Opportunity for national recognition
 - Research findings could contribute to intellectual merit
 - Provides opportunities for future funding

KICKSTARTER PROCESS



STEM PLANNING and CONCEPT DEVELOPMENT



WHAT WE HAVE DONE

- **Technical Assistance Site Visit**

Planning Meeting – Early November 2016

- 15 LAHC Faculty and staff participated

VP of AA, Dean of EWD, Articulation/Counseling, STEM Faculty, Department Chairs and Staff

- Student lead tour of STEM classrooms, library and labs

- **Developed STEM Pathway Plan**

- STEM Assessment – Heat Map Analysis
- Input from site visit planning
- Identified four goals based on campus activities

STEM PATHWAY PLAN GOALS

Informs Selection of Funding Available to Conduct Research

*The following four goals were selected based on areas/activities in which LAHC has existing funding. The purpose of **NSF grants** are to fund the study and research of best practices in the identified goal areas*

1. Demonstrate value of **Supplemental Instruction (SI)** on student persistence and success in math and science classes
2. Demonstrate the impact on students of **work-based learning experiences** – internships, externships, clinics – and on increasing and improving industry engagement with the college

STEM PATHWAY PLAN GOALS

Informs Selection of Funding Available Conduct Research

*The following four goals were selected based on areas/activities in which LAHC has existing funding. The purpose of **NSF grants** are to fund the study and research of best practices in the identified goal areas*

3. Establish **informal student communities** such as STEM Center, study groups, project based activities, etc., that strengthen social engagement and acclimation to the college, career development student persistence and success in STEM programs.
4. Strengthen **student recruitment** pipeline through comprehensive outreach strategies

NEXT STEPS

Research Study Approach (Currently Working)

- Preparation to write NSF Proposal
- STEM Pathway **2 Priority** Goals – selected based on existing LAHC activities and supporting funding
 - Goal 2: Impact of Work-Based Learning
 - Goal 4: Strengthened Student Recruitment

Continued TA to Apply for Grant Opportunities

- At least two NSF grants to fund research in two priority areas

Potential Publication Opportunity

- Research findings that contribute to intellectual merit