ABSTRACT FORM

1. Loyola Marymount University (LMU), in consortium with Santa Clara University (SCU), Saint Mary's College of California (SMC), University of San Francisco (USF) and SCELC.

2. *OER for Social Justice at Four California Catholic Colleges & Universities*

3. *OER for Social Justice* is a collaboration between four mission-driven, Catholic universities in California with support from the Statewide California Electronic Library Consortium (SCELC) to support the creation and expand the use of open educational resources (OER), addressing an identified gap in the adaptation and creation of OER in private college and universities. The program will support faculty to adapt and create OER to integrate diverse, equitable, inclusive, and anti-racist (DEIA) perspectives into high-enrollment courses across disciplines. The program aims to reduce the cost of education for the culturally, racially, and economically diverse students enrolled in the high-enrollment courses at these four institutions (**target population**), increase faculty capacity to create and promote OER in their disciplines, and to add new content to the growing body of OER that can further diversity, equity, justice, and inclusion into the curriculum. *OER for Social Justice* will implement a three-phase OER framework to support faculty in the creation of OER that is of high-quality, student-centered, and inclusive. **Services and proposed activities** include training to increase faculty competencies in OER and integration of DEIA practices, OER review and curation to identify gaps in the OER marketplace, dedicated personnel to support faculty in OER creation, publishing, and implementation, as well as the sharing of the OER through a robust dissemination plan. The **anticipated results** are approximately 6,000 students will save an estimate of $500,000 annually to promote course affordability and student success and the creation of OER that furthers DEIA.

4. The Consortium is committed to fully addressing each of the three **Absolute Priorities** (detailed on page 28 of the *Project Narrative*). The Consortium will **1**) *Improve collaboration and dissemination* by leveraging their AJCU, LACU, and SCELC sector and employer networks and build upon their existing relationships to create and expand the use of OER across private institutions; **2**) *Address gaps in OER* by adapting and creating DEIA and social justice-related OER materials; **3**) *Promote student success* by achieving the highest level of savings for students through sustainable, expanded use of OER in high-enrollment courses.

5. The Consortium addresses the **Competitive Preference Priority** (*Narrative* p.32) to improve instruction and student learning outcomes by integrating technology-based strategies into OER published in Pressbooks and through the use of H5P, which supports branching scenarios for adaptive learning. The Educational Technology Expert will train and support faculty to integrate the appropriate techniques such as universal principles of design, accessibility, and personalized assessments. Adequate resources will be made available to faculty teams to facilitate the integration of the technology-based strategies such as Pressbooks, Camtasia, and H5P. These tools are compatible with multiple LMS and enable faculty to monitor student learning.

6. The Consortium addresses the **Invitational Priority** (*Narrative* p.34) through their minority-serving designations. SMC has a dual status of a Hispanic Serving Institution (HSI) and an Asian Americans and Native American Pacific Islanders Serving Institution (AANAPISI). LMU, SCU, and USF are all designated as Emerging Hispanic Serving Institutions (EHSI).

1. University of Houston- Downtown (UHD), Houston Community College (HCC), Baylor University (BU)

2. Experimentium: Inclusive by Design

3. a. Experimentium will be a collection of digital experiments with resources for **instructors** on how to effectively implement a custom curriculum that is generated through the website in their courses. Support for teaching math concepts, scientific writing, teamwork, and inclusion and assessment instruments will be included. Instructors will be able to customize and upload their custom curricula in any learning management system. **All students** will benefit from having all experiment instructions and supporting resources integrated into one editable document. The experimental protocol will be demonstrated by expert chemists on video with closed captioning, English and Spanish subtitles, transcripts, and audio description. **Staff** at the implementing institutions will benefit from having the supply lists automatically generated and the use of non-hazardous materials in some experiments.

3. b. The faculty from the consortium will create **free hands-on experiments** in the Experimentium format and implement those in their classes. Dr. Bryan Shaw from BU is an expert in working with **differently abled**, including visually impaired students, and will train all content creators. English and Math faculty at UHD will generate training materials and tutorials to support students and instructors. The project coordinators will bring together the consortium members to develop the Experimentium resources. They will work with the technology experts to create a **seamless, easy-to-use interface** for students and instructors, and they will study the effectiveness of the generated Experimentium collection. The results of the project will be disseminated locally, and globally to promote **OER** adoption.

3. c. A collection of **openly licensed**, employer and instructor reviewed, student-tested hands-on chemistry experiments with a uniformly formatted structure and accessibility features for all students will be created on the **Experimentium website** which can be used to generate customizable, flexible, and scalable curricula for General, Organic and Introductory Chemistry courses.

4. Yes. Faculty and staff from UHD will partner with HCC faculty for content creation and Dr. Bryan Shaw from BU will recommend approaches for making resources accessible to all students. **Employers** from the public and private sector, and a Medical School instructor will give their **perspective** on essential skills for future success and will **review** the Experimentium resources.

5. Yes. Hands-on chemistry experiments are the ultimate active learning experience. The experiments are built on a guided discovery approach where students first engage with the task with their hands. Students will have the demonstration videos available to monitor the progress of their experiment and make comparisons, which makes independent and team trouble-shooting possible. Students will engage all their senses in collecting data and observations, making each experiment a complex multi-sensory problem-solving task. Students will work as a part of the team which allows them to take advantage of social aspects of learning and establish a peer support and peer review network.

6. Yes. This project will be led by faculty from UHD, a minority serving and Hispanic serving 4-year public university (52% Hispanic, 20% Black, 13.7% White, 8.9% Asian). The consortium includes HCC (36% Hispanic, 27% Black, 13% White, 11% Asian),a community college, and BU (60% White, 15% Hispanic, 7% Asian, 6.5% Black), a private research university.