



The School of Natural Science, Mathematics, and Engineering at California State University, Bakersfield offer a program in science and mathematics funded by Chevron Corporation. This program is geared towards high school students and intends to increase interest in science and mathematics careers. REVS-UP offers hands-on research experiences for teams in biology, chemistry, computer science, engineering, geology, mathematics, and physics. All research projects will take place **June 5 through June 29, 2017** in the research laboratories at CSUB.

Additional information can be found at <http://www.csub.edu/revsup>  
Please email [stem@csub.edu](mailto:stem@csub.edu) with questions about the program.

Interested high school students and incoming CSUB freshmen need to submit the following materials:

- o Completed application;
- o Personal statement describing their interest;
- o Letter of recommendation from a high school math/science teacher or counselor;
- o Current High School transcripts.

Due to the high volume of applicants, incomplete application packets will not be considered. We regret that we cannot accept repeat participants.

Applications are due on **March 10th, 2017 by 5:00 pm.**

The projects take place between  
**June 5 and June 29, 2017 (Monday – Thursday 9:00 a.m. to 4:00 p.m.)**

High School participants will receive a **\$500.00** stipend for the summer research program.  
Incoming CSUB Freshmen with a declared STEM major will receive a **\$1,250** stipend.



Research Experience Vitalizing Science — University Program

## 2017 Chevron REVS-UP APPLICATION\*

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone \_\_\_\_\_ Email \_\_\_\_\_

High School \_\_\_\_\_ Grade \_\_\_\_\_ Current GPA \_\_\_\_\_

Project “Lead the Way” Participant? (Yes/No) \_\_\_\_\_ Previous REVS UP Participant? (Yes/No) \_\_\_\_\_

*For incoming CSUB Freshman only:* Major: \_\_\_\_\_ CSUB ID# \_\_\_\_\_

Please rank your project preference with 1 being your first choice and 12 being your last choice.  
Project descriptions are available on the website: [www.csub.edu/revsup](http://www.csub.edu/revsup)

Rank	Subject	Project Title
	Biology	The Role of Stress on Tetrodotoxin Production in Rough-skinned Newts ( <i>Taricha granulosa</i> )
	Biology	Do Bacteria Found on the Skin of the Pacific Tree Frog ( <i>Pseudacris regilla</i> ) Play a Role in Protecting the Frogs from Fungal Disease?
	Chemistry	The Impact of Roasting Level on the Anticancer Activity of Coffee
	Chemistry	Generation and Characterization of Random Mutations of the Active – Site of Lysyl Oxidase
	Computer Science	Design and Implementation of an Intelligent Home
	Computer Science	Automated Medical Image Analysis
	Geology	Mineral Analysis of Soda Lake Sediments, California: Implications for the Regional Weathering Evolution
	Math	Combinatorial Magic and Geometry
	Math	Chaos Theory and Fractal Geometry
	Engineering and Physics	Smart and Automatic Irrigation System using Wireless Sensor Network
	Engineering and Physics	Thermal Properties of a Solid Material at Room Temperature
	Engineering and Physics	Visual Demonstration of the Anatomy of Our Polluted Atmospheric-Air

**\*All components of your application must be turned in together.** The completed application consists of:

\_\_\_ **Application (this form)** \_\_\_ **Personal Statement of Interest** \_\_\_ **Transcripts**

\_\_\_ **Letter of recommendation (2 maximum)**

Please make sure that the letter(s) of recommendation are collected in a sealed envelope with the signature of your instructor across the back flap.

*I understand that the application for the CSUB Chevron Research Opportunities is due on March 10, 2017 by 5 pm. The completed application consists of the application itself (this form), my statement of interest, a maximum of two letters of recommendation, and transcripts. I am fully aware that submitting an application does not automatically make me a participant.*

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

**Application due date is March 10, 2017.**

**Submit completed applications to:  
CSU Bakersfield, STEM Student Center  
Attn: Chevron REVS UP Program  
9001 Stockdale Highway, Bakersfield, CA 93311**



Letter of Recommendation

Student Section

*After filling in your name, give this form to a science or math instructor or counselor that is able to make comments regarding your academic abilities.*

Student Name \_\_\_\_\_

Instructor/Counselor Section

***Please complete the following recommendation for the above student and return to him/her in a sealed envelope with your signature across the back flap.***

The above student is applying to participate in a summer research program at CSU, Bakersfield. Your comments are very important to us and will be used during the selection process. We appreciate your interest and time in writing on behalf of this student. Please attach additional pages as needed. You may also attach a letter to this form, if it is more convenient; however, we would appreciate your addressing the questions raised here, if possible.

1. How long have you known this student? \_\_\_\_\_ Years \_\_\_\_\_ Months

2. On what do you base your recommendation of the applicant?

- \_\_\_\_\_ Personal contact with student
- \_\_\_\_\_ Teachers' comments
- \_\_\_\_\_ Other counselor observations
- \_\_\_\_\_ Records
- \_\_\_\_\_ Other (please explain): \_\_\_\_\_

3. Please give your personal appraisal of the applicant with regard to the following (*% of students in relationship to total number of students you are currently working with*):

	Outstanding (Top 1%)	Excellent (Top 10%)	Good (Top 25%)	Average (MID 50%)	Below Average
Intelligence	_____	_____	_____	_____	_____
Motivation	_____	_____	_____	_____	_____
Creativity	_____	_____	_____	_____	_____
Leadership	_____	_____	_____	_____	_____

