

Informed Consent Form: PILOT SURVEY

Study: *Characterization of Undergraduate Research Experience Work Design and Student Outcomes in STEM Research Teams*

Dear Undergraduate Student,

If you are currently involved in (or recently completed) undergraduate research in STEM (Science, Technology, Engineering, Mathematics), or a related field during an academic year at a primarily undergraduate college or university, you are invited to participate in this research study. This research study is conducted by a research team that includes Dr. Anya Goodman and Dr. Andrea Somoza-Norton at Cal Poly San Luis Obispo and Dr. Dan Bachrach at the University of Alabama. It is expected that your participation will take approximately 60 minutes. You and others may personally benefit from your participation. If you are interested in participating, please review the following information.

PURPOSE OF THE STUDY AND POTENTIAL BENEFITS

The purpose of this study is to investigate how the structure of work in the undergraduate research setting affects the personal and professional outcomes of students from diverse disciplines, institutions, identities and experience levels. Potential benefits to society and STEM education include a more comprehensive understanding of how undergraduate research experiences can be better designed to improve student experience and growth.

Potential benefits to individual participants include increased awareness of the benefits of undergraduate research (e.g. development of specific skills or relationships), as well as an understanding of the four dimensions of work design. Becoming aware of the four dimensions of work design and thinking of the past experiences along these dimensions may help participants adopt vocabulary from organizational psychology and develop a mental framework for evaluating the future job and career opportunities, and relating their past experiences (including likes and dislikes) to the future career choices.

PROCEDURES and YOUR PARTICIPATION

If you agree to participate, you will be asked to complete an online survey that asks you about your experiences, perceptions, and specific aspects of working as part of an undergraduate research group. You will be giving us permission to analyze and report data resulting from your responses to the survey. All responses will be kept confidential. The survey will be provided via a secure website (Qualtrics) and will take approximately 60 minutes to complete.

PAYMENT FOR PARTICIPATION

You will not be paid for participating in this research, but you will receive a \$5 e-gift card of your choice via the Tango Card website after completing the survey.

PROTECTIONS AND POTENTIAL RISKS

Please be aware that you are not required to participate in this research. Refusal to participate will not involve any penalty or loss of benefits to which you are otherwise entitled, and you may discontinue your participation at any time. You may also omit responses to any questions you choose not to answer.

There are minimal risks anticipated with your participation in this study. Your responses will be collected as confidentially as supported by Qualtrics. Additionally, your confidentiality will be protected by not requiring your name or contact information in the survey. At the end of the survey, you will have an option to indicate whether you are interested in receiving updates on the research results and/or follow up invitation for an interview by providing researchers with your email address. The contact information (email address) is voluntary and is not required. All data collected will be destroyed by 2030.

RESOURCES AND CONTACT INFORMATION

This research is being conducted by Dr. Anya Goodman in the Department of Chemistry and Biochemistry at Cal Poly - SLO. If you should experience any adverse outcomes from this research, please be aware that you may contact Dr. Anya Goodman at agoodman@calpoly.edu for assistance. If you have questions regarding this study or would like to be informed of the results when the study is completed, please contact the researcher using the email provided above.

If you have concerns regarding the manner in which the study is conducted, you may contact Dr. Michael Black, Chair of the Cal Poly Institutional Review Board, at (805) 756-2894, mblack@calpoly.edu, or Ms. Trish Brock, Director of Research Compliance, at (805) 756-1450, pbrock@calpoly.edu.

AGREEMENT TO PARTICIPATE

If you agree to voluntarily participate in this research project as described, please indicate your agreement and proceed to complete the survey in the Qualtrics platform. Please retain a copy of this form for your reference, and thank you for your participation in this research.

Anya Goodman

I have read the procedures described above. By checking "Agree" below, I am electronically signing this document indicating my consent to participate in this study and certifying that I am at least 18 years old or older.

Response options:

Agree

Disagree

If "Agree" is chosen, the survey commences.

If Disagree is chosen:

“Thank you for taking an interest in the project” and exit.