**APPLICATION**

**Research Experience for Undergraduates (REU)**

**Before and After a Supereruption: Magmatic Insights from the Southern Black Mountains, AZ**

**Applications for the 2016 program are now being accepted and will be reviewed through November 9, 2015**

**Program Summary**

The Research Experience for Undergraduates (REU) program, *Before and After a Supereruption: Magmatic Insights from the Southern Black Mountains, AZ,* is a National Science Foundation-funded project that is divided into three parts: (1) field research; (2) a month of laboratory work, analysis, and writing; and (3) presentation of research at the national GSA meeting. The first session will be Jan. 1-10, 2016 in the field and the second session will be mid-May (around the 13th) through July 1, 2016 (in the field and at Vanderbilt and Mercyhurst Universities). The national GSA meeting will be Sept 25-28, 2016. By submitting this application, you agree that you are able to attend all of these sessions in full. Program-related research, travel, and housing costs will be covered during the program, and students will receive a $500/week stipend ($5000 total) to be distributed during the summer session. For details about this project, please visit: <https://my.vanderbilt.edu/supereruptionreu/>.

**Eligibility**

To be eligible for this REU, you must be enrolled as an undergraduate student at an institution of higher learning in the United States throughout the program (at least through Fall 2016). Participants must be covered by health insurance throughout the program (Jan. 1 through Sept. 29, 2016) – this will not be provided by the program, but is required. Prior to starting the REU, participants must have completed at least one introductory geoscience course plus at least two of the following advanced geoscience courses: mineralogy, petrology, structural geology, historical geology, sedimentology/stratigraphy, field methods (or similar courses). As well as academic background and strength, the potential impact of this experience on the applicants’ future academic and career opportunities will be taken into consideration.

Students should be aware that field work in the Arizona desert in January and May, while being a mostly fulfilling and invigorating experience, is physically demanding and can at times bring with it discomfort due to either cold and/or wet weather (in winter) or extreme heat (in late spring).  We will at times be navigating rugged and sometimes expansive terrain on foot and camping in remote areas, far from modern conveniences.  We encourage applications from students who are generally comfortable in the outdoors and expect they would enjoy (or at least happily bear) the challenges of this kind of environment, while engaging in scientific discovery.

**APPLICATION**

Please fill out the application below (either electronically or print, complete, and then scan) and email to Dr. Lily Claiborne (lily.claiborne@vanderbilt.edu). Please direct questions or concerns to Dr. Lily Claiborne (lily.claiborne@vanderbilt.edu) and Dr. Nick Lang (nlang@mercyhurst.edu).

**Name:**

**Date of Birth:**

**Female/Male:**

**Ethnicity (optional):**

**School/major(s):**

**Year in school:**

 **Expected Graduation Date:**

**Please list the geoscience courses you will have you taken prior to the start of this project (January 2016) and the letter grade you received for each, as well as geoscience courses that you will complete in spring 2016:**

**Please list any other college-level math and science courses you have taken (e.g., Calculus, Chemistry):**

**Is there a faculty member at your home institution who will serve as your mentor when working back home? If so, who will be your mentor? Please have her/him indicate his/her intention to serve as your mentor on the required recommendation form. Be aware that while having a designated mentor at your home institution is preferable, it is not required.**

**Do you have any experiences with scientific field work, outdoor recreation (camping, hiking, etc.), and/or other wilderness experience? If so, please briefly describe.**

**Given the physical environment in which this work will take place, can you complete the work with or without reasonable accommodations? Please explain.**

**Additional Materials Required**

(1) Write an **essay** explaining why you want to be involved with this project and how this experience would enhance your academic/career opportunities. Please limit your response to one page, double spaced. Submit this response in the same email as your application.

(2) Please have **two faculty** complete the **recommendation form** found on the REU website(<https://my.vanderbilt.edu/supereruptionreu/application>) and email to Dr. Lily Claiborne (lily.claiborne@vanderbilt.edu). If you will have a mentor for this program at your home institution, one of the two recommendations should come from him/her and he/she should complete the section for home-institution mentor on the recommendation form.