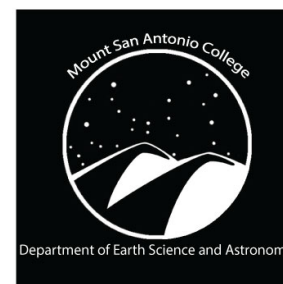


# Redinger Family Earth & Space Science Research Grant Program 2019 Application



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The **Earth and Space Science Research Grant (ESSRG)** was established to provide Mt. San Antonio College students the opportunity to gain experience in authentic and original scientific research, and to contribute to increasing knowledge within the Earth and Space Sciences. In collaboration with an Earth Science and Astronomy faculty member (serving as a mentor) of the supporting departments, the grant awardee will use funds to investigate a geo- or space-science-based research problem and disseminate the results in a public forum.

Students should plan to address the main elements of the **ESSRG**, which are to:

1. Identify a research problem and purpose of their proposed research
2. Review scientific literature pertaining to their research
3. Describe methods that they will use to collect data that addresses the question
4. Analyze, evaluate and interpret the data
5. Evaluate and report on the research

**Open Research Topic: Any research question related to  
Geosciences, Space Sciences, Meteorology or Oceanography**

**To qualify for the award, you must:**

- Make time to work on the project during at least one of the following terms while enrolled at Mt. SAC: Spring/Summer/Fall 2019
- Present your work at a conference
- Prepare a poster as well as a 2-3 page written report about your project

**To apply for this award, you must:**

- Be currently enrolled at Mt. San Antonio Community College.
- Have completed at least **15** semester units at Mt. SAC.
- Have successfully completed at least **6** semester units within the Earth Sciences & Astronomy
- Have successfully completed one STEM lab course

**Award** (Funds distributed by Mt. SAC Foundation incrementally, upon completion of milestones)

- \$1,500 Student research stipend (Installments)
- \$150 Project supplies/materials (Receipts required)
- \$250 Student professional conference funding (Registration/travel)

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*Application Form and Support Documents due date: **Friday February 22, 2019***  
Application form and all support documents submitted to **JBray-Ali@mtsac.edu**

**Student's Application Must Include:**

1. \_\_\_ **Application Form (see last page)**
2. \_\_\_ **Project Proposal**
  - a. Typed, double-spaced description of your proposed research project
  - b. **Include the following information**
    - 1) Applicant name(s)\*, email address(es) and phone number(s)
    - 2) Project objective
    - 3) Proposed methods to accomplish the project;
    - 4) Proposed project location;
    - 5) Assumed timeline
    - 6) Equipment and/or instruments needed;
    - 7) Materials needed;
    - 8) Name of mentor professor or staff member
3. \_\_\_ **Signed statement of support** from the mentor professor or another staff member. The letter may be emailed by the professor.
4. \_\_\_ **A student copy of your Mt. SAC transcript(s).** (You may obtain this form from the Transcript Office with 24 hour advance notice, or immediately at [myportal.mtsac.edu](http://myportal.mtsac.edu) and send it as a digital file)

\*Multiple applicants may apply for the award as a research team.

**List of Earth Science and Astronomy professors who may be  
interested in mentoring, and some of their research interests:**

- Tania Anders- Geology, Paleontology, Oceanography and Climate Change ([tanders1@mtsac.edu](mailto:tanders1@mtsac.edu))
- Mark Boryta- Geology, Coastal Processes, and Planetary Geology ([mboryta@mtsac.edu](mailto:mboryta@mtsac.edu))
- Julie Bray-Ali- Astronomy, Public Outreach and Low Temperature Magnetism ([jbrayali@mtsac.edu](mailto:jbrayali@mtsac.edu))
- Micol Christopher- Astronomy and Star Formation ([mchristopher@mtsac.edu](mailto:mchristopher@mtsac.edu))
- Michael Hood- Astronomy, Stellar Evolution, Imaging, and Spectroscopic Analysis ([mhood@mtsac.edu](mailto:mhood@mtsac.edu))
- Heather Jones- Astronomy and Planetarium Science
- Hilary Lackey- Geology, Invertebrate Paleontology and Oceanography ([hlackey@mtsac.edu](mailto:hlackey@mtsac.edu))
- David Mrofka- Geology, Sedimentology & Stratigraphy and Climate Change ([dmrofka@mtsac.edu](mailto:dmrofka@mtsac.edu))
- Rebecca Walker- Geology and Volcanic Landscapes ([rwalker@mtsac.edu](mailto:rwalker@mtsac.edu))
- Craig Webb- Geology, Atmospheric Science and Natural Disasters ([cwebb@mtsac.edu](mailto:cwebb@mtsac.edu))

## APPLICATION FORM

Name \_\_\_\_\_

Student ID Number \_\_\_\_\_

Address \_\_\_\_\_  
(Street Number)

\_\_\_\_\_ (City and Zip Code)

(       ) \_\_\_\_\_ - \_\_\_\_\_ Home Phone

(       ) \_\_\_\_\_ - \_\_\_\_\_ Cell Number

\_\_\_\_\_ E-mail address

Earth & Space Science Courses taken at Mt SAC (please list all with professor name):

Course \_\_\_\_\_ Professor \_\_\_\_\_

Course \_\_\_\_\_ Professor \_\_\_\_\_

Course \_\_\_\_\_ Professor \_\_\_\_\_

Major:

GPA:

Name of faculty or staff member providing letter of reference: \_\_\_\_\_

Career objectives:

Transfer University: