# Leonard Undergraduate Research Fellowship Application

# UNM Earth & Planetary Sciences Department

**For Summer 2024 and/or Fall 2024**

A generous bequest from the Leonard Family has allowed the EPS Department to award several fellowships to assist undergraduate majors in Earth & Planetary or Environmental Sciences to make a serious commitment to research. Each student award will consist of a $2000/semester stipend, with up to an additional $500/academic year to be used for research expenses (which can include travel to meetings). A maximum of $4000/academic year is available for each student, with a maximum of 2 semesters of funding during your time at UNM. There may be the possibility of funding of a third semester under special circumstances (e.g., authoring/co-authoring publication of your research work). Consultation with a Research Mentor to define a topic is a **required** part of this application (any EPS faculty member, research professor or lecturer may serve as Advisor for undergraduate research). This is a competitive grant funded on the quality of your proposal. If you are requesting a second or third semester of funding, we will ask for evidence of progress towards completing supporting sciences that will enhance the competitiveness of your proposal.

### Eligibility:

Students will be selected for Leonard Fellowships based on their research proposal and questions (details below), academic standing, and degree to which they will benefit from the research experience. To be eligible for one of these awards, students must meet the following requirements:

* You must be a declared major in EPS or ENVS.
* You must be enrolled as a full-time student.
* You must have successfully completed MATH 1512 (formerly MATH 162), **and** either EPS 301/302 or ENVS 330 or ENVS 320L, at the time of the award.
* You must enroll in either EPS 491 (Problems, 1-3 credit hours), EPS 493 (Independent Study, 3 credit hours), or EPS 495 (Senior Thesis, 3 credit hours) for the semester of the fellowship with your Research Advisor as the instructor of record.
* Must have consulted with a potential advisor for your proposed project and obtained their signature for your application below

### Expectations:

We expect research funded through a Leonard Research Fellowship to yield scholarly products, including

* 1. A 15 minute oral EPS Undergraduate Research Symposium presentation upon completion of a project; a 5- minute progress report if funding is for one semester only.
  2. A written research report such as one of the following:
     + A written senior thesis completed within 2 weeks after graduation
     + A co-authored publication for which you carried out a significant portion of the writing

### Leonard Fellows are strongly encouraged to present their results at an appropriate meeting outside UNM (e.g. NMGS, GSA, AGU, etc.) with help from their Research Advisor.

**Application Details:**

To be considered, students must submit the following **IN A SINGLE PDF DOCUMENT** to Cecilia Arias ([epsdept@unm.edu](mailto:epsdept@unm.edu)) by **NOON, April 12, 2024.**

* Completed application form;
* UNM transcript (unofficial is ok)
* A professional resume or CV (see attached template)

***The Research Fellowship and Educator’s Fellowship are rarely awarded concurrently, but we will consider applications for both fellowships under exceptional circumstances (e.g., where a student has made excellent prior progress and has only one or two courses to take in the semester applied for to complete their degree).***

**Leonard Undergraduate Research Fellowship Application Form**

### New Application Continuing Application

**NAME BANNER ID**

**STREET ADDRESS (including city, state, zip code):**

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**DAYTIME PHONE NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EMAIL**

**DECLARED MAJOR**

**ANTICIPATED GRADUATION DATE**

**Grades In: Math 1512 (162) \_\_\_\_\_ Plus one of the following: EPS 301/302L \_\_\_\_\_\_ ENVS 320L (330) \_\_\_\_\_\_**

**SIGNATURES: STUDENT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**RESEARCH ADVISOR (REQUIRED) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Have you ever received a Leonard Research or Educator’s Fellowship before?**

**☐ Yes, Research ☐ Yes, Educator’s**

**☐ No, Research ☐ No, Educator’s**

**If yes to either, indicate which kind and which semester(s) and year you received support?**

**This application is for which semester(s)? Please note that summer support counts as one of your 2 (or maybe 3) eligible semesters.**

**☐ Summer 2024**

**☐ Fall 2024**

**ATTACHMENTS and CHECK LIST:**

* **RESEARCH PROPOSAL (<2 PAGES)**
* **BRIEF SUMMARY OF PREVIOUS WORK, IF THIS IS A CONTINUING APPLICATION.**
* **PROFESSIONAL RESUME OR CV**
* **UNOFFICIAL TRANSCRIPTS (UNM and elsewhere with courses for major and supporting sciences)**
* **ANSWERS TO QUESTIONS (following your proposal, Questions 7-10)**

# Leonard Undergraduate Research Proposal

**Provide Project Title:**

1. **This section should present the problem, hypothesis, and the overall objectives of your project (1000 character limit, including spaces):**
2. **This section should discuss the scientific and societal significance: What is the importance of this project? What literature supports your approach to understanding the problem you are addressing? You should place your research into the broader context of scientific work. You should cite at least two (2) articles to support your work (listing citations in #6, below). Discuss your figure here, if applicable. (2500 character limit):**
3. **This section should concisely state your research plan and how it will test your hypothesis stated above. (2500 character limit, including spaces):**
4. **If you have received a Leonard Research Fellowship in prior semesters, please give a progress report on that work here (2500 character limit, including spaces):**

1. **Provide one figure that supports your proposal. it can have multiple parts, but should fit in one page and include captions:**
2. **References cited in your proposal:**
3. **How would receiving the Leonard Fellowship affect your ability to carry out undergraduate research (1000 character limit, including spaces)?**
4. **What do you hope to gain from carrying out an undergraduate research project (1000 character limit, including spaces)?**
5. **If this is a continuing proposal request (requesting funding for 2nd or 3rd semester), please indicate progress towards completing your supporting sciences. Please provide courses and grades of completed supporting sciences, and/or anticipated scheduling of future courses (e.g., I plan to take PHYS 1320 (Physics 2) in Spring of 2025).**
6. **If this is a continuing proposal request for a 3rd semester of funding, please provide a detailed description of what you anticipate accomplishing during this semester. 2000 character limit, including spaces.**

**Marco Polo**

## 123 Your Address City, State Zip Code

(xxx) xxx-xxxx [your@email.edu](mailto:your@email.edu)

Banner Id:

**Areas of Academic Interest and Future Goals** (for a resumé, you may state professional goals here)

## **Education** (post-secondary institutions attended, years at each, any degrees awarded):

*Prior Institutions and years attended: Current Institution and years attended: GPA:*

*Undergraduate major: Undergraduate minor:*

*Expected graduation date and degree:*

**Employment Experience** (list jobs related to your studies)**:**

## **Grants, Awards and Honors** (if any)**:** list grants (submitted or awarded, including $ amounts and dates), awards, honors received, and memberships in professional societies

**Research**

*Title of research project(s):*

*Research progress (describe current status of the research): Research Advisor:*

*Abstracts: list all abstracts presented (cite full reference in GSA or AGU format)*

*Publications: list all publications completed, in press, or submitted (cite full reference in GSA or AGU format)*

**Relevant technical skills** (list technical, computer, analytical skills, and professional training short courses related to your studies):

**Service** (list service to the department or community related to your studies):