

2021 Medical Student Research Scholarship Requirements

The following requirements of the Medical Student Research Scholarship were outlined in the application submitted for funding. If you, or your mentor, have any questions or concerns with any of these requirements, please contact research.education@osumc.edu

1. **Submit complete proposal by January 8, 2021** (award notifications April 9, 2021)
 - a. Contingent awards - Submit responses to reviewer concerns by April 23, 2021
 - b. Funded projects - Accept or decline funding by April 17, 2020
2. **Remote Research, Education & Training Plan** (outline included on last page)
 - a. All MDSR Scholars Complete longitudinal on-line learning “Introduction to the Principles and Practice of Clinical Research” submit final certificate prior to August 2021.
 - b. Select 6 additional on-line research education and training relevant to Clinical Research, Science Communication, Data Management, Clinical Research Ethics/Clinical Trials, Biostatistics, Grant Writing, and Science Literacy.
 - c. Submit a summary writing assignment for each selected training.
 - d. This independent learning schedule is expected to be completed during the OSU summer semester with writing assignments due prior to August 2021
3. **Attend the annual Medical Student Research Kickoff presentation** (invite with details will be sent to each awardee and mentor)
 - a. Attendance is mandatory of all awardees
4. **Research Compliance, IRB/IACUC Protocols** (if applicable)
 - a. Cover letter of IRB approval of amendment to add student to existing protocol(s) as key personnel.
 - b. Documentation due to the Medical Student Research Program Office prior to starting approved research project.
5. **MDSRS Checkpoint surveys**
 - a. Electronic survey sent via email a week prior to due date
 - b. Must be completed by both Mentor and Mentee for payments to be released
6. **Final Research Report:** A report of research activity is due approximately 10 days after the start of the following academic year. *Not all research produces the anticipated outcome. If your research gave unexpected results, report the outcome and suggest how the research might be restructured in the future to produce meaningful results. All recipients of research funding are required to submit a report regardless of the outcome of the studies.
 - a. Abstract: A brief description of background, methods, results and conclusions (no more than 250 words)
 - b. Introduction: Brief history of topic area with importance of the research project selected. State the hypothesis tested. Important references should be cited.
 - c. Methods: Brief description of the methods including statistical methods
 - d. Discussion and Findings/Conclusions: Fully discuss the results and their implications. Compare and contrast your findings with the literature. Suggest the next series of studies.
 - e. References: Full citations are required including all authors, title, journal, volume, and year.

7. **Presentation of Poster at the Annual MDSR Research Symposium**
 - a. Students that receive funding are required to present a poster at MDSR Research Symposium, in late October/November. The information in your research report can serve as the source material for your poster. Call for abstracts are typically in early Sept/Oct.
 - b. The MDSR Program Office will notify you of the date once it has been determined. Make note of that date and do not plan to be out of town or busy for your required poster presentation.
8. **Evaluation of Research Experience:** Both you and your mentor will separately be requested to evaluate the research experience (Mentor/Mentee Research Experience Evaluation Survey). From this evaluation, the COM and MDSR Office wish to learn more about the benefits and challenges for medical students conducting summer research projects. We also welcome your ideas and suggestions to maximize the value of the experience.
9. **Research Productivity Report:** Upon submission of your final report, this productivity report is necessary to capture all collaboration, publications, presentations, and future plans regarding the proposed and funded research.
10. **Award Acknowledgment:** Remember to acknowledge the specific scholarship received in any publications and presentations (e.g., Barnes, Bennett, Roessler, and COM).

Citing Medical Student Authorship

College of Medicine Acknowledgment: All publication that includes current medical students should identify the Ohio State University College of Medicine as their institution. *See examples below.

MDSR Award Acknowledgment: Remember to acknowledge the specific “Named” research scholarship received in any publications and presentations (e.g., Barnes, Bennett, Roessler, and COM). *See examples below.

How to site authors in a publication:

Acknowledging medical student contributions & the OSU College of Medicine in publications:

Title: Cardiovascular Risks and Drug Interactions

Authors: First Author*, [Medical Student Name](#)[†], Third Author*, and PI (research mentor)*

Footnote: * The Ohio State University Department of Internal Medicine, and [†] [Medical Student Research Program, The OSU College of Medicine](#), the OSU Heart and Lung Research Institute, The Ohio State University Wexner Medical Center, Columbus, OH

How to reference COM financial (scholarship) support:

Support: This work was supported in part by the [OSU College of Medicine \(Barnes, Bennett or Roessler...\)](#) research scholarship (medical student initials), NIH grant (collaborator initials), NIH grant xxxx (PI initials) etc.

Remote Research Education & Training For MDSR Scholars

All MDSR Scholars Complete longitudinal on-line learning below:

- <https://ocrtraining.cit.nih.gov/> (create an account)
- [Introduction to the Principles and Practice of Clinical Research 2019-2020](#)

All Scholars **select 6** on-line learning modules from **8** different categories listed below:

1. Science Communication

- [Talking Science: Designing and Delivering Successful Oral Presentations](#) (1/11/2013)
- [Creating and Presenting Dynamic Posters](#) (7/11/2013)

2. Grants/Grant Writing

- [Grant Writing 101](#) (1/18/2013)
- [Introduction to Grant Writing I: Demystifying the NIH Grant Review Process](#) (6/29/2010)
- [Introduction to Grant Writing II: Strategies for Writing Effective Training and Research Plans](#) (7/14/2010)

3. Science Literacy

- <https://www.nccih.nih.gov/health/know-science/make-sense-health-research>
- [Science Literacy: Concepts, Contexts and Consequences](#) (Chapter 1-Introduction; Chapter 2-Science Literacy & Health Literacy...)

4. Data Management

- [Keeping a Laboratory Notebook](#)
- Data management and questions....<https://ori.hhs.gov/sites/default/files/data.pdf>

5. Clinical Research Ethics

- [What makes Clinical Research Ethical?](#)
- 7 Principles of Ethical Clinical Research & Application to Study Examples https://bioethics.nih.gov/education/FNIH_BioethicsBrochure_WEB.PDF

6. Conduct of Retrospective Chart Reviews with Scientific Rigor

- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3853868/>

7. Clinical Trials

- <https://about.citiprogram.org/en/series/good-clinical-practice-gcp/>

8. Biostatistics

- <http://streaming.yale.edu/ybmc/flash/imp-class/20080714/20080714.html> - online course for biostatistics, little under 2 hours long
- <https://biostats4you.umn.edu/> - Statistical resources for non-statisticians.