Sciex 7500+ Seed Grant- Call for Proposals

Proposal deadline: April, 4th, 2025

Overview: A Sciex 7500+ system was recently acquired with funding support from the M.J. Murdock Charitable Trust and is arguably the most sensitive instrument of its class currently commercially available. The LC-MS/MS instrument boasts top tier performance in sensitivity, speed, and robustness by building upon the legacy of the 7500 series. The 7500+ increases reliability through incorporation of the new mass guard technology. Further, the new 7500+ is built with the user in mind and has been designed with improved front-end user serviceability and has increased scan speeds of up to 800 MRMs/ sec to increase the scope of larger panels. Lastly, the 7500+ operates on SciexOS which has Metrics Tracker features for the instrument as well as modern software features such as automated decision-making. The Sciex 7500+ is currently used across the globe in applications varying from pesticides, PFAS, bioanalytical quantification in GLP studies, biomarker research, hormones analysis, and more.

Additional information on the instrument can be found in the links below:

- 7500+ System Video
- Sciex 7500+ System FAQs
- Sciex 7500+ System Brochure
- Triple Quad 7500 Plus System
- Discover unparalleled sensitivity and extended instrument uptime on the highly-robust SCIEX 7500+ system
- Ultra - fast MRM acquisition and quantitation of food contaminants in multiple food matrices
- Bioanalytical - Quantitative performance of a next-generation, highly robust triple quadrupole mass spectrometer
- Redefine bioanalysis with enhanced robustness on the SCIEX 7500+ system
- Fast scanning quantitative lipidomics analysis using the SCIEX 7500+ system
- 7500+ features and PFAS analysis in food

The M.J. Murdock Charitable Trust has granted funding to sponsor a seed grant program for WSU faculty to conduct initial research using the instrument. The purpose of the seed grants is to help WSU faculty investigate how this instrument can enhance their research and help them secure additional funding to use the instrument in their research. Accordingly, these small grants aim to support new faculty investigators who have not used a Sciex 7500+ system to utilize the instrument to seed new projects.

Eligibility: Any WSU PIs with research projects that can utilize the Sciex 7500+.

Budget and timeline: The PI may request a maximum of $5,000 (no minimum) for supplies, consumables, small equipment, and/or technician support related to sample preparation and analysis. Please note technicians cannot be graduate students. Awardees will have access to the on-campus expert faculty and staff as consultants as they optimize methods, run samples, and analyze results. If it is not feasible for the PI or designated technician to use the instrument as a trained user, please contact Dr. Clarke prior to submission to discuss options for running samples on the instrument. The project period will be June 2, 2025 to December 1, 2025. Funding cannot be requested for travel, or for data collection on instruments besides the Sciex 7500+ instrument.

Proposal instructions: Proposals should be no more than 3 pages in length (excluding references) and use a font size no smaller than 11 pts and 1" margins. They must contain the following sections: 1) Background and introduction to the research problem, 2) Proposed use of the instrument (i.e. planned experiments), 3) Broader impact such as how the data might lead to a future grant proposal, 4) Proposed budget and justification, and 5) Eligibility statement indicating either that the group has not previously used this instrument or how their new use is different from measurements previously conducted.

Proposal evaluation: A team of reviewers with expertise in mass spectrometry technology will review applications and score them based on criteria such as innovation, scientific significance, potential for attracting external funding, and the appropriateness of the proposed budget.

Deliverable: Funded Seed Grants will require a two-page report at the end of the project period outlining the data acquired and how it has helped advance the research project. The report should include all grant proposals (indicate funding status), manuscripts (indicate publication status), presentations, new collaborations, and training (indicate education level of each trainee). The report will be used in the final report to the M.J. Murdock Charitable Trust. The M.J. Murdock Charitable Trust should be acknowledged in presentations and publications that arise from the Seed Grant projects.

Submission instructions: Proposals can be submitted through email to WSU Foundation Relations (wsuf.ofr@wsu.edu)

Questions or need guidance on the instrument: contact John Clarke (j.clarke@wsu.edu) or Ze Liu (ze.liu@wsu.edu)