



## Student Technology Fee Committee (STFC) Special Allocation Request

### ALLOCATION REQUEST DATE INFORMATION

Date Created: 2024-11-07 08:45:52

Date Due: 2024-11-15 12:00:00

Date Submitted: 2024-11-12 14:40:06

### ALLOCATION REQUEST TITLE/DESCRIPTION

Request Title: NMR for class use

Request Description: The NMR instrument is used solely by UWT students enrolled in introductory, general, and organic chemistry, which are open to all students. The existing instrument no longer works and cannot be fixed.

### ALLOCATION REQUEST INFORMATION

Department Name: Science and Mathematics

Request Code: 24S0461

Contact Names: Jim Gawel

UW Tacoma Affiliation: Faculty

UWT Email Address: jimgawel@uw.edu

Phone Number: 2536925815

Title of Request: NMR for class use

Type of Request: One Time

Department Head Approval:  Department Head: Maureen Kennedy

## Special Request Information

**1. Background: Review and discuss the context of the proposed technology in detail. Explain how this proposal will be used in conjunction with an original proposal or existing technology. If applicable, how is the current technology disabled or inadequate?**

The NMR (nuclear magnetic resonance) instrument is vital for understanding and identifying organic molecules. The Sciences and Mathematics (SAM) Division of SIAS purchased our original NMR with one-time building construction funds, but that instrument stopped working and the manufacturer will no longer service the instrument since replacement parts are no longer made for that model. The instrument is critical and necessary for instruction in our chemistry classes. SAM has a budget for ongoing maintenance of the instrument, but not for purchase of a new instrument. We are requesting funding to purchase a replacement instrument, which we would then pay to maintain for years to come.

**2. Benefit to Students: Discuss how students have (for returning applicants) or will (for new applicants) benefit from this technology. How will additional funding of the technology benefit students?**

This instrument is vital to our chemistry curriculum, and is used solely for student class use (not for faculty research). Providing students with the opportunity to use the NMR is important for their understanding of chemistry concepts, and key preparation for graduate programs, medical school, and employment after graduation. We have no possible substitute for this technology.

**3. Access: Describe who will be using or will have access to the resources being proposed. In addition, all previous requestors, please provide historic data highlighting the usage and accessibility of technology. All new requestors, please provide user need data.**

In AUT 2024, about 150 students were enrolled in chemistry courses at UW Tacoma, and that number will increase to over 200 in WIN 2025. General Chemistry is open to all students, and is regularly taken by multiple majors in SIAS and SET. Organic Chemistry and Biochemistry courses also have access to this instrument, and these courses are required preparation for students applying for medical, dental, veterinary, and pharmacy schools, as well as other graduate and professional programs.

**4. Timeline: Provide a timeline showing how the proposed technology can be completed during the requested period. Describe when you would like to see this proposal initiated and completed, and why.**

If funded, we plan to order the instrument in early winter quarter 2025, so that the instrument is available for courses later in the same quarter. We already have a replacement quote with an educational discount.

**5. Resources/Budget: Discuss available financial, personnel and space resources devoted to the proposed technology and level of support. Proposal must detail all the items/resources requested to be purchased. This includes filling out the Item Detail in next section.**

We have dedicated existing space for the instrument in SCI 336. SAM staff and faculty are already trained in using the similar (now non-functional) instrument. This is a simple plug-in model and requires no other electrical or mechanical work to install. As mentioned above, SAM has funding for ongoing preventative maintenance for the proposed instrument, but no funding for purchasing the instrument itself.

## Funding Request Items

Item	QTY	Cost Per Item	Shipping Fee	Tax Per Item	Subtotal
60e 1H-19F High Resolution Benchtop NMR Spectrometer	1	\$36,569.00	\$750.00	\$3,844.00	\$41,163.00
OVERALL TOTAL:					\$41,163.00