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Budget Justification

- A. Senior Personnel** – Funds are requested to support the PI in the form of summer salary (0.5 months/yr) to ensure that the PI is allowed the requisite time to perform the proposed research, mentor students, and engage in other professional service activities.
- B. Other Personnel** – Funds are requested to support the equivalent of two PhD students for the duration of three years. The salary budgeted for the graduate researcher is based on standard University of Minnesota stipends in the Department of Chemical Engineering and Materials Science (CEMS).

All salaries are budgeted with a 3% annual increase.

- C. Fringe Benefits** – The institutional rates for the three year period are as follows:

Salary Expense	Year 1	Year 2	Year 3
Faculty/PI	36.6%	36.6%	36.6%
Post-doctoral Associate	25.9%	25.9%	25.9%
Graduate students (Health)	23.2%	23.2%	23.2%

The tuition component of graduate student fringe benefits are assessed at \$23.08 per hour or \$3.66 per hour (for 780 hours on an annual basis) depending on whether the student has passed their Ph.D. candidacy exams.

NOTE! The latest fringe rates are always published at <https://policy.umn.edu/finance/fringerates>.

- D. Permanent Equipment** – None requested.
- E. Travel** – Support to the amount of ~\$4,000 annually is requested for travel expenses to present results from this research at annual AIChE and ACS national meetings. This cost includes registration expenses to the amount of \$500 for these conferences and \$1500 for travel and lodging expenses for the conference.
- F. Participant Support Costs** – none requested.
- G. Other Costs**
1. Materials and Supplies – Funds in the amount of ~\$10,000 are requested annually to defray the costs of purchasing supplies including gases, isotopic reagents, and chemicals.
 2. Publication/ Dissemination Costs: None requested.
 3. Consultant Services – None requested.
 4. Computer Services – None requested.
 5. Subawards – None requested.

H. Total Direct Costs – self-explanatory.

I. Indirect Costs – Indirect costs have been calculated at the agreed upon rate of 54% MTDC. The date of our [DHHS Agreement is 7/8/2024](#)

J. Total Direct and Indirect Costs – self-explanatory.

K. Residual Funds – N/A.

L. Amount of this Request – self-explanatory.

M. Cost sharing – N/A.