

SMST Founders' Grant Guidelines

This biennial grant is sponsored by the International Organization on Shape Memory and Superelastic Technologies (SMST), an affiliate society of ASM International and has been permanently endowed through a gift from Tom Duerig. The intent of the SMST Founders' Grant is to provide funding for early, exploratory research related to shape memory and superelasticity. It is expected that the funds will be used as a "seed grant," used to test a concept and lay a foundation for obtaining further funding from industry or government agencies.

The criteria for submission of a funding request are presented below. The SMST Founders' Grant of \$50,000 USD will be accepted from any academic or non-profit research institution. The applicant and researcher may be a student, research assistant, post doc, or professor. In any case, the quality and impact of the specific proposed research will be weighted heavier than the individual identity or the lab/team's general objectives.

Topics of interest include, but are not limited to:

1. Improved properties of shape memory materials
2. Methods of engineering microstructure for performance
3. Lifetime and process-performance prediction
4. The mechanics and crystallography of transformations
5. New materials and alloying additions
6. Improved processing methods and advanced manufacturing methods
7. New applications

Criteria for Judging:

Judging will be equally based on the following four factors:

- Value of research
 - Novelty (not a continuation of funding for an existing program)
 - Potential to transform state-of-the-art scientific understanding and/or technologies
 - Potential to create high impact publications
- Realistic ability to execute plan (clear path to deliverables)
 - Adequate physical facilities
 - Adequate ancillary support (e.g. site funding, personnel)
 - Credentials and publication record of researcher(s)
- Potential of gaining sustained funding beyond the immediate grant period
 - Targeted funding institutions (industry and/or government)
 - Research scope and relevance
- Overall quality of the proposal
 - Clarity and logic of the proposal
 - Grammatical quality

Application and selection process

Each submission will be evaluated by the SMST Founders' Grant Selection Committee (the "Committee") appointed by the SMST Board, which includes a founding SMST member and SMST board members appointed by the SMST president and founding SMST member. Proposals will be judged based on the criteria given above. Each Grant request shall be written in English and a maximum of eight (8) typed, double-spaced, Arial 12-point font, justified pagination pages in length, including cover page, figures, and tables, and should follow this format:

- Cover Page
 - Full contact information including email and direct phone with country code
 - Abstract (250 word maximum)
- Technical Volume
 - Introduction
 - Background
 - Research statement
 - Anticipated results
 - Anticipated path for sustained funding
 - An itemized budget for the program's expenses and amount of support requested, not to exceed \$50,000. (Budget form attached; template in Excel provided upon request.)
 - Conclusion
 - Figures
 - Reference citations (listed references can be single spaced, but must be 12-point font and will be counted in the eight-page limit)
- CV(s) of individual(s) involved [not included in eight (8) page maximum]

Grant Details

- The SMST Grant presentation cycle will match the SMST Conference cycle (currently every 24 months in correspondence with the SMST International Conferences.)
- Grant award will be announced and presented at the 2024 SMST Conference and the recipient(s) will present his/her research results at the next SMST Conference in 2026.
- Submissions will be accepted up to 8 months prior to the SMST Conference.
- Grant recipient will be notified 1 month prior to the SMST Conference.
- Recipient is expected to attend the SMST conferences at the onset and at the conclusion of the award period.

Fellowship Details and Conditions

Per the bylaws of the ASM Materials Education Foundation, the source of the grant funds, at least 95% of the funds must be used for direct costs (the institution cannot

apply more than 5% overhead). Expenses that are not allowable include such items as food/alcohol, computers or additional memory and ancillary supplies, office supplies, administrative fees, etc. Any expenditures on equipment exceeding \$5,000 must be expressly itemized in the grant proposal. Recipients are responsible for travel and housing expenses to attend the SMST Conference but will have one registration fee waived for each year of attendance as detailed below. Travel costs to conferences may be included in the budget.

Reporting Requirements

The Founder's grant is for \$50,000 across the two-year period. Researchers are expected to participate in a committee update teleconference once each year, submit an Annual Activities and Finance Report by May 1st each year and attend the next SMST conference in two years to report on research findings. Annual Activities and Finance Reports should be brief and informative, following the templates and instructions provided.

Change in Field of Study

Recipients are expected to promptly notify the committee of any change in scope and provide the reason for the change in scope.

Acknowledgment

The recipient is responsible for assuring that acknowledgement of SMST support is made in any publication (including web-based publications) of any material based on or developed during the award, using the following terms: "This material is based upon work supported by the International Organization on Shape Memory and Superelastic Technologies, an ASM International affiliate."

Logo usage

SMST's logo may be used by recipients only for the purpose of acknowledging support. Furthermore, the logo may be used to link to SMST's website to acknowledge support or affiliation, subject to approval by the SMST board.

Deadline to apply for the 2024 SMST Grant is January 15, 2024, 5 p.m. Eastern Standard Time. The recipient will be notified by March 29, 2024 and announced at the 2024 SMST Conference in Cascais, Portugal. The recipient(s) will present research results at the 2026 SMST Conference.

Each SMST Fellowship submission should be e-mailed as a .doc and a .pdf to:
foundation@asminternational.org

SMST - The International Organization on Shape Memory and Superelastic Technologies
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Questions may be directed to Carrie Wilson, executive director of the ASM Materials Education Foundation: carrie.wilson@asminternational.org.