

# NSMMS

NATIONAL SPACE & MISSILE MATERIALS

# CRASTE

COMMERCIAL AND GOVERNMENT RESPONSIVE ACCESS  
TO SPACE TECHNOLOGY EXCHANGE

# STUDENT PROGRAM

June 24 – 27  
Madison, WI

NSMMS & CRASTE are pleased to announce the student program for the 2024 event. Our committees recognize the criticality in engaging and encouraging students in these fields in order to strengthen workforce development across the industry and help usher in a capable new generation of engineers and research scientists who will one day take lead in our Country's space pursuits.

The NSMMS & CRASTE student program is intended to provide an opportunity for students to interact directly with leaders in the space industry and provide educational opportunities regarding the state of the art in the field. Details on the program can be found on the next two pages.

NSMMS & CRASTE topics this year include:

- » Advanced Topics in Additive Manufacturing
- » Advances in Ground System & Range Operations
- » Development, Processing & Testing of Advanced Materials
- » Transportation for Cislunar Space and Beyond
- » Future Space Architectures
- » Ground & Flight Test Methodologies
- » High Altitude/Sub-Orbital Platforms & Experiments
- » Hypersonics
- » Innovative Test Methodologies & Platforms
- » Integrated Vehicle Health Management (IVHM) & Integrated System Health Monitoring (ISHM)
- » Missile & Missile Defense
- » Novel Spaceflight Payloads, Instruments & Mission Operations
- » Suborbital, LEO, and Re-Entry Systems
- » System Level Studies
- » Space Access & Propulsion
- » Spacecraft & Space Mobility

To submit an abstract, visit

<https://www.usasymposium.com/space/cfa.php>.

*(Note that Students have until 30 January to submit abstracts.)*

## CASH AWARDS

*Sponsored by Northrop Grumman*

### Best Oral Presentation:

1st Place - \$1200  
2nd Place - \$600  
3rd Place - \$200

### Best Poster Presentation:

1st Place - \$500  
2nd Place - \$300  
3rd Place - \$200

## PROGRAM ELIGIBILITY

Full-time graduate or undergraduate students in an engineering or related program, in good academic standing, are eligible to participate. All participants must:

1. Be U.S. Citizens (born or naturalized)
2. Have an active DD2345 (military and government employees are exempt). Students must fall under their university's DD2345. See the security page on the website for more information on this.
3. Must meet one of the following criteria: be taking summer courses, be doing research over the summer, working an internship over the summer, or have an endorsement from their advisor verifying they were taking courses prior to summer break and/or are scheduled to resume courses after summer break.
4. Must submit an abstract on their suggested topic (300 words or less). (Required for program elements #1, 3, & 4 on the next page.)

**FOR DETAILS ON THE NSMMS & CRASTE STUDENT PROGRAM, VISIT  
[HTTPS://WWW.USASYMPOSIUM.COM/SPACE/STUDENT.PHP](https://www.usasymposium.com/space/student.php)**

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PROGRAM FEATURE DETAILS

**1. Student Travel Grants:** Travel grant recipients are required to either give an oral or poster presentation of their research at the event. To be considered for oral presentation, abstracts and applications must be submitted by January 30th. After this date, applicants will only be considered for poster presentations. Grant funds can be applied towards travel and student registration expenses, and will include funding up to \$1200 and will be offered on a first-come-first-served basis. To submit a travel grant application, [click here](#). Applicants will be notified of their grant award in late February or within two weeks of application if submitted after February.

**2. Work Share Program:** The work share program provides complimentary registration to NSMMS & CRASTE in exchange for working the equivalent of 2 of the 4 days of the conference as either an Audio-Visual Support Assistant in the technical sessions or a Door Guard/Badge Checker. Many work-share participants enjoy the extra interaction with speakers and attendees that this job affords them. We attempt to match volunteer's schedules with the times and days they would like to work. Training will be provided onsite. If you are interested in this opportunity, please contact Amy Voisard at [avoisard@blue52productions.com](mailto:avoisard@blue52productions.com). Student grant recipients can utilize this opportunity to stretch their grant funds further, however you do not have to be a grant recipient or a presenter at the conference to participate in the work-share opportunity.

**3. Oral & Poster Presentation Opportunities:** All travel grant and award recipients must present an oral or poster paper at the conference. The Call for Abstracts and abstract submission form can be found [here](#). Abstracts are due **30 January 2024** and abstract submitters will be notified of their status in mid-February. Most oral presentation slots are 25 minutes including time for questions. Poster papers will be co-located in the exhibit hall which is open Monday Evening – Wednesday Evening of the conference.

**4. Cash Awards:** Cash awards are listed on the previous page and will be offered to the top three oral and top three poster presentations. The selection process is detailed on the next page. Student presentation awards are sponsored by Northrop Grumman.


**5. Networking Functions:** In addition to the Monday, Tuesday, and Wednesday evening receptions that involve all attendees, student program participants will also be invited to a student lunch mixer with technical subject matter experts in the industry. More details will be sent to the student participants prior to the conference. This mixer is sponsored by the University Consortium for Applied Hypersonics.

**6. Resume & Job Boards:** There is an online job board that students may post their resumes/CVs to and employers may post job openings. Onsite, there will be two job and resume boards available to all attendees. We encourage you to take advantage of this if you will be in the job market soon. Many past student program participants have received job offers through attendance at this event.

**7. Reduced Student Registration Fee:** Student program participants may qualify for a reduced registration fee of \$475. You must provide proof that you are a full time undergraduate or graduate student in good academic standing at time of event to be eligible. The Student Registration rate gives you access to all programmed events but does not include a copy of the proceedings. Students who are seeking the student registration rate only and are not participating in any of the other program features listed above, must submit a student verification form in addition to registering. In order to utilize your University DD2345 you must be taking summer courses, or doing research over the summer, or have an endorsement from your advisor verifying you were taking courses prior to summer break and/or are scheduled to resume courses after summer break.

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## ORAL PRESENTATION AWARDS SELECTION PROCESS

**Step 1: Submission of your abstract.** In your abstract, please illustrate the novelty of your research. This must be received by January 30th. The abstract should be based on original work you conducted at school and you must be the primary author for the abstract. The work itself could be done in collaboration with others, but you must be one of the primary participants in the work or study. To submit an abstract, click [here](#).

**Step 2: Submit a personal statement along with your university transcript.** This must be received by February 6th. Personal statements should be no more than one page, should address how the work/research was initiated, and include your final goal for the work/research, your role in the research, the contributions of your co-authors, and why you feel your work/presentation should be considered for the award. Your personal statement and transcript should be sent to Chelsea Kubal at [ckubal@blue52productions.com](mailto:ckubal@blue52productions.com).

**Step 3: The NSMMS & CRASTE Selection Committee will choose up to ten semi-finalists based on an evaluation of the abstract, personal statement, and academic transcript. Prize winners will be chosen based on these items plus evaluation of the oral presentation.** The selection committee will announce the winners at the conclusion of the conference in Track One. The monetary prizes will be mailed out after the conference has concluded. (Please note that any prize winners receiving \$600 or more will be required by the IRS to submit W-9s to the event producer, Blue52 Productions.)

## POSTER PRESENTATION AWARDS SELECTION PROCESS

**Step 1: Submission of your abstract.** In your abstract, please illustrate the novelty of your research. The abstract should be based on work/research you conducted at school and you must be one of the primary authors for the abstract. To submit an abstract, [click here](#).

**Step 2: The selection committee will judge the student posters based on content and presentation.** Winners will be announced at the close of the conference in Track One. The monetary prizes will be mailed out after the conference has concluded.

## IMPORTANT DATES TO REMEMBER

**January 30<sup>th</sup>, 2024**


Student Abstract Due Date

**February 6<sup>th</sup>, 2024**

Personal Statement and Transcripts Due for Oral Presentation Submissions

**June 24 - 27, 2024**

Conference Dates

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[HTTPS://WWW.USASYMPOSIUM.COM/SPACE/STUDENT.PHP](https://www.usasymposium.com/space/student.php)**