



## RASC-AL OVERVIEW

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The Revolutionary Aerospace Systems Concepts - Academic Linkage (RASC-AL) is managed by the National Institute of Aerospace (NIA) on behalf of the National Aeronautics and Space Administration (NASA). RASC-AL was formed to provide university-level engineering students the opportunity to design projects based on Aerospace engineering challenges as well as offer NASA and aerospace industry access to new research and design projects by students.

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RASC-AL fuels innovation for aerospace systems concepts, analogs, and technology prototyping by engaging universities as partners in the journey.

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## RASC-AL SPECIAL EDITION CHALLENGES

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Periodically, Special Edition RASC-AL programs are established to elicit students' fresh perspective on developing concepts that may provide full or partial solutions to specific design problems and challenges currently facing human space exploration. In the past, these special edition competitions have included design- build-test programs for subsystem and component level prototypes, as well as technology demonstrations for critical ISRU capabilities (i.e., the 2019 RASC-AL Special Edition: Moon to Mars Ice & Prospecting Challenge).

The **2019 RASC-AL Special Edition: Moon to Mars Ice & Prospecting (MMIP) Challenge** provides undergraduate and graduate students with the opportunity to design and build hardware that can **extract water and assess subsurface density profiles from a simulated off-world test bed to advance critical technologies needed on the surface of the Moon or Mars**. 10 teams have been chosen to receive a stipend to build and demonstrate their system's capabilities during the 2019 MMIP Forum in June 2019 at NASA Langley Research Center in Hampton, VA.

## 2019 MMIP FORUM TENTATIVE AGENDA AT-A-GLANCE

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### MONDAY, JUNE 3

- 🕒 Steering Committee Meeting
- 🕒 Forum On-site Check-in
- 🕒 Evening Networking Reception

### TUESDAY, JUNE 4

- 🕒 Welcome/Guest Speakers
- 🕒 Team Set Up and Test Day

### WEDNESDAY, JUNE 5

- 🕒 6 Hour Competition Day One
- 🕒 Informal Poster Presentations
- 🕒 Evening Networking Dinner

### THURSDAY, JUNE 6

- 🕒 6 Hour Competition Day Two
- 🕒 Informal Poster Presentations
- 🕒 Awards Ceremony, Dinner, and Lessons Learned

## 2019 RASC-AL SPECIAL EDITION SPONSORSHIP OPPORTUNITIES

The Moon to Mars Ice & Prospecting Challenge (MMIP) Forum offers a unique opportunity to collaborate with NASA and NIA to engage students and faculty in advancing critical In-Situ Resource Utilization (ISRU) technology needed to sustain a long-term presence on the surface of the moon or Mars. Your participation affirms your commitment to foster open innovation, facilitate technology infusion, and expand the frontiers of knowledge, capability, and opportunity in space.

### Program/Title Sponsor

#### **\$50,000+ to fund the administration of the program**

Industry partners receive year-round recognition and enjoy exclusive access to MMIP teams and technical submissions. Partners help guide the annual MMIP to reflect relevant and timely/current aerospace challenges. Additional opportunities are provided at the Forum's premier event, the Awards Dinner, which takes place at the conclusion of the Forum in June. Sponsorship includes:

- ④ The Industry Partner will be recognized as a Title Sponsor in all promotional materials, and have the ability to provide quotes in joint NIA/NASA news releases/feature story from a sponsoring company executive (pending appropriateness and approval from NASA Public Affairs Office)
- ④ 4 complimentary MMIP Forum registrations
- ④ Complimentary recruitment table at the Forum
- ④ Opportunity to elect a RASC-AL Special Edition Judge/Steering Committee member to represent the partnering company
- ④ Opportunity to have company representative included in a FB LIVE event with NASA 360
  - Special Note: The NASA 360 Producer and NIA MMIP Program Director will determine story arc and how/when/how long any of the sponsors at this level will be included.
- ④ Keynote Speaker during Awards Dinner - 15 minutes to address conference attendees
- ④ The Industry Partner will be invited to present one award during the Awards Dinner
- ④ Promotion on MMIP social media, where appropriate
- ④ Opportunity for sponsoring company executive to write a personal message in the Forum Program Book
- ④ Prominent placement of Corporate Logo on printed Forum Program Book and Sponsor Sign at Forum
- ④ Prominent recognition as partner with Link, Logo, and description of sponsorship on the RASC-AL Special Edition Website
- ④ Banner with Corporate Logo displayed in Hangar
- ④ Corporate Logo placed on RASC-AL Special Edition Shirts
- ④ Opportunity to provide one complimentary bag insert for Forum attendees
- ④ Opportunity to assemble company displays throughout the Forum

### Diamond Sponsors

#### **(between \$20,000 and \$50,000, including in-kind donations, service grants to teams, and direct financial sponsorship)**

A high-profile sponsorship that provides branding benefits, as well as opportunities to engage with high-caliber undergraduate and graduates students from top-notch aerospace engineering schools. Diamond Sponsorship includes:

- ④ Opportunity to provide up to 3 representatives on site during the MMIP Forum to interact with the students, professors, judges and other sponsors
  - For sponsors providing direct financial sponsorship, registration fees are complimentary
  - For sponsors providing material donations/service grants, representatives will be responsible for the registration fees
- ④ Opportunity to have company representative included in a FB LIVE event with NASA 360

- Special Note: The NASA 360 Producer and NIA MMIP Program Director will determine story arc and how/when/how long any of the sponsors at this level will be included.
- ④ Promotion on MMIP social media, where appropriate
- ④ Inclusion in joint NIA/NASA feature stories and or news releases related to MMIP, along with other sponsors (pending appropriateness and approval from NASA Public Affairs Office).
- ④ Complimentary recruitment table at the Forum
- ④ Recognition as Sponsor with Link, Logo, and description of sponsorship on the RASC-AL Special Edition Website
- ④ Corporate Logo displayed on printed Forum Program Book and Sponsor Sign at Forum
- ④ Opportunity to provide one complimentary bag insert for Forum attendees

## Gold Sponsors

**(between \$5,000 - \$19,999), including in-kind donations, service grants to teams, and direct financial sponsorship)**

Gold sponsors receive special branding and marketing benefits, including:

- ④ Opportunity to provide up to 2 representatives on site during the MMIP Forum to interact with the students, professors, judges and other sponsors
  - For sponsors providing direct financial sponsorship, registration fees are complimentary
  - For sponsors providing material donations/service grants, representatives will be responsible for the registration fees
- ④ Inclusion in joint NIA/NASA feature stories and or news releases related to MMIP, along with other sponsors (pending appropriateness and approval from NASA Public Affairs Office)
- ④ Promotion on MMIP social media, where appropriate
- ④ Recognition as Sponsor with Link, Logo, and description of sponsorship on the RASC-AL Special Edition Website
- ④ Corporate Logo displayed on printed Forum Program Book and Sponsor Sign at Forum
- ④ Opportunity to provide one complimentary bag insert for Forum attendees

## HOW TO MAKE A RASC-AL SPONSORSHIP

RASC-AL Sponsorships can be made directly to the National Institute of Aerospace, a 501(c)3 non-profit organization, enabling sponsors to obtain tax benefits in accordance with the Commonwealth of Virginia and United States tax laws.

For your convenience, you may donate using: Checks, or Credit or Debit Cards.

Please contact Stacy Dees, RASC-AL Program Manager, if you would like to make a RASC-AL Sponsorship: 757-218-8313;  
[Stacy.dees@nianet.org](mailto:Stacy.dees@nianet.org)

