

Senate Bill

Short Title: NMT Lunabotics Club Travel

Agency, Agent, or Individual Proposing: NMT Lunabotics Club

Requested Date of Resolution: 14 day of September

Proposing Individuals' Information:

Name 1: Meghan Cephus Title: Vice President

Phone: (575)942-9496 Email: meghan.cephus@student.nmt.edu Campus Box: 4283

Student/Non-Student: Student Signature: Meghan Cephus

To the Proposing Agency, Agent, or Individual:

Please attach a typewritten explanation of your needs and/or concerns in double-spaced 12-point format, placing a page number and title on the top of each page. Include all information necessary and pertinent to your argument. State exactly what action you would like the Senate to consider taking and by when you must have a decision. Please take in to consideration that the Senate meets approximately once every two weeks while classes are in session -- a schedule is available from the SGA Secretary.

Please see the Manual for Drafting Bills to help fill this page out; it includes explanations and examples for each field. If you have any further questions, please contact the SA Vice President.

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Date Presented to the Vice President: 9/16/21 Initials of Receipt by Vice President: D.N

Session of the Senate: Fall () Spring/Summer of the calendar year _____

Amount Approved: _____

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Presidential Signature: _____ Date: _____

Lunabotics Senate Proposal Bill
9/2/21

The NMT Lunabotics Club requests \$5,265 to take five members and our faculty advisor to the Kennedy Space Center from May 21-28, 2022. The goal of the NMT Lunabotics Club is to compete in the NASA Robot Mining Competition (RMC). NMT is the first New Mexican school to be invited to participate in RMC. Going to Florida will allow New Mexico Tech to compete at a national level. The team will form connections with NASA for future employment opportunities. To compete in RMC, five team leads and our academic advisor will travel to the Kennedy Space Center.

Driving is the most cost-effective and beneficial means of travel for this trip. We will need to bring our 80 kg robot with us to Florida. The cost to ship the robot without damage to the space is expensive, so driving the robot in a van is the most cost effective solution. We will have two members as drivers, thus allowing everyone to have a break from driving and ensuring the team's safety while traveling the roughly 1,800 miles to Florida. Thus far we have secured \$20,000 in funding to build the robot and pay for transportation. We have received \$5,000 each from the New Mexico Space Grant Consortium, NASA RMC, Nuclear Waste Partnership LLC, and the NMT AIAA Club. Now we are looking to secure funding for hotels and transportation. With the \$5,265 we will provide the team with lodging for the five days of competition and two days of travel. Below we have a full breakdown of the transportation and hotel costs.


Meghan Cephus, Vice President

Vehicle/Gas:

New Mexico Tech has vans and other vehicles available for academic use. This usage allows the team to travel to and from the competition and transport the robot ourselves. The school requires a payment of \$0.60 per mile for each vehicle used; this includes gas as well. The team will need to take one vehicle to transport all members and the robot.

| Vehicle/Gas Costs | |
|--|--------------|
| Cost Per Mile | \$0.60 |
| Number of Miles from Socorro to Merritt Island | ~1,800 miles |
| Number of Vehicles Needed | 1 |
| Estimated Parking Fees Per Day | \$15 |
| Number of Days Parked | 7 |
| Round-Trip Total | \$2,265 |

Hotel:

The team will need to travel around ~1,800 miles from Socorro, New Mexico to Merritt Island, Florida. Due to the long drive, the team will need to spend at least 1 night in a hotel at a halfway point before they reach their destination in Florida. This will also be true on their way back from the competition. Therefore, the team will need to stay in a hotel for 7 nights to account for the travel distance and 5 competition days. To cut down on costs, two team members can stay in 1 hotel room with 2 beds.

| Hotel Cost | |
|------------------------------|-------------|
| Average Hotel Costs | \$150/night |
| Number of Hotel Rooms Needed | 3 |
| Total for 7 days: | \$3,150 |