

# FAR-OUT Entry Form

University and Country Information Email listed directly below allows for modifying an entry and where the receipt is sent.

\* Indicates required question

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1. Email \*

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2. College or University Name \*

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3. Address \*

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4. City \*

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5. State / Province \*

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6. Country \*

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7. Team Name \*

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### Team Leadership

The people that are listed below are the individuals we will contact. These people must be contactable. Only use emails that will be checked regularly. If staffing changes you must email the FAR-OUT Staff to any changes so we can change our contact sheet for your team.

8. Name of Team Lead \*

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9. Email of Team Lead \*

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10. Phone Number of Team Lead \*

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11. Name of Secondary Team Lead \*

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12. Email of Secondary Team Lead \*

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13. Phone Number of Secondary Team Lead \*

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14. Name of Team Safety Lead \*

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15. Email of Team Safety Lead \*

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16. Phone Number of Team Safety Lead \*

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17. Name of University Advisor \*

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18. Email of University Advisor \*

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19. Phone Number of University Advisor \*

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20. Social Media Presence \*

List all Instagram, LinkedIns, TikToks, Facebook, or OnlyFans, Twitch, Websites that your team uses

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21. Any Team Mentors that your team coordinates with?

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**Important Demographics**

These are the demographics that we actually want to know to see how teams actually are prepared for competition. Only aggregate data will be shared with sponsors.

22. How Many of Each Year Members do you Have \*

*Mark only one oval per row.*

	0	1	2	3-5	6-10	11-20	21-50
<b>1st Year Undergraduates</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>2nd Year Undergraduates</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>3rd Year Undergraduates</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>4th Year Undergraduates</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>5+ Year Super Seniors</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Masters Students</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>PhD Students</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Others</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. How many of each major do you have on your team? \*

Double Majors are awesome hardworking people and they count as two people, one for each major.

Mark only one oval per row.

	0	1	2	3-5	6-10	11-20	21-50
<b>Aerospace Engineering</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Chemical Engineering</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mechanical Engineering</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Electrical Engineering</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Computer Science</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Other Engineering</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Physics</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Chemistry</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Biological Sciences</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Other Science</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Mathematics</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Business / Econ</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Others</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. For other majors please list majors and numbers. We are curious?

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25. What Percentage of your team is new? \*

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26. What Percentage of your team is graduating after this year? \*

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### Optional Demographics

Please fill out these demographics if you would like. This section is entirely optional, but this is information that could be shared with potential sponsors so it would be greatly encouraged to fill this out.

27. How many people Identify as male on your team?

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28. How many people Identify as female on your team?

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29. How many people identify as neither male nor female?

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30. How many people identify as Black, Hispanic, or Latino?

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31. How many people identify as veterans?

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Team Experience

32. Any High Power Rocketry Certifications? If so, please list how many of each certification there are on the team. \*

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## 33. Have you competed in any of these other competitions? (mark all that apply) \*

*Check all that apply.*

- FAR 51025 - 25,000'
- FAR 51025 - 10,000'
- FAR 51025 - 5,000'
- FAR MARS
- FAR DPF
- Launch Canada Advanced Liquid
- Launch Canada Advanced Hybrid
- Launch Canada Advanced Two Stage or Cluster
- Launch Canada Technology Development Challenge
- Launch Canada Basic
- EUROCC
- Latin American Space Challenge 3 km hybrid
- Latin American Space Challenge 1 km hybrid
- Latin American Space Challenge 3 km Solid
- Latin American Space Challenge 1 km Solid
- Latin American Space Challenge 500m solid
- Technofest
- Lander Challenge
- Spaceport America Cup 30K SRAD Hybrid
- Spaceport America Cup 10K SRAD Hybrid
- Spaceport America Cup 30K SRAD Solid
- Spaceport America Cup 10K SRAD Solid
- Spaceport America Cup 30K COTS
- Spaceport America Cup 10K COTS
- NASA Student Launch Initiative
- Argania Cup
- Other: \_\_\_\_\_

## 34. How long has your rocketry team been competing? \*

\_\_\_\_\_



35. What is the highest impulse rocket engine your team has tested? \*

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36. What is the highest combined impulse rocket your team has flown and successfully recovered? \*

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37. Any STEM Outreach Events?

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38. Any other details we should know about your team's experience?

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### Rocket Information

For Data values please limit responses to numbers. Do not insert your own units; use the units specified in the description below each question. This prevents delays in data analysis. If some of this data is not readily available just yet, please put your best estimate or what you plan to design to. Future Progress Updates will provide opportunities for more updated information as your design process evolves.

39. Category \*

*Mark only one oval.*

- 5,000 ft - 15,000 ft      *Skip to question 65*
- 20,000 ft - 40,000 ft      *Skip to question 65*
- 50,000 ft to 110,000 ft      *Skip to question 63*

40. Within your category, what is your preferred contract altitude? \*

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41. Propulsion Type \*

*Mark only one oval.*

- Hybrid
- Liquid

42. Estimated Rocket Mass \*

[kg]

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43. Estimated Average Engine Thrust while the rocket is on the rail or launch tower \*

[N]

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44. Estimated Burn Time \*

[s]

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45. Estimated Impulse \*

[Ns]

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46. Rail Length \*

[ft]

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47. Rail Exit Velocity \*

[ft/s]

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48. Maximum Velocity \*

[ft/s]

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49. Rail /Tower Choice \*

See Available Launchers at [Launchers – Friends of Amateur Rocketry, Inc.](#)

If using your own rail write down rail / tower length in the other entry. Use of rails at FAR are subject to availability.

*Mark only one oval.*

- FAR 20' 1515
- FAR 10' 1010
- FAR Newman Launch Rack 48"by48" by 20'
- FAR Baxter 60' T Rail
- FAR Microsim 60' T Rail
- Using Own Rail
- Other: \_\_\_\_\_

50. Estimated Oxidizer Mass \*

[kg]

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51. Estimated Fuel Mass \*

[kg]

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52. Oxidizer \*

*Mark only one oval.*

Nitrous Oxide

Liquid Oxygen

Other: \_\_\_\_\_

53. Fuel Choice \*

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54. Engine Discussion \*

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55. Rocket Discussion \*

Dimensions, materials, etc

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56. Electronics Discussion \*

Please be sure to mention switches, power supplies, altimeter boards (COTS and/or Research) and tracking

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57. Recovery Discussion \*

Please be sure to mention parachute sizes, parachute bags or blankets, drag coefficients, swivels, shock chords/harnesses, eyebolts/U-bolts, connections between airframe sections, dual deployment method and any hardware used for actuation of main parachute release. Any recovery system not using a parachute should be outlined here as well.

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58. Payload Discussion \*

Any preliminary details regarding payload design or research experiments are welcome.

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59. Engine Testing Discussion \*

Description of methods, facilities available, methodology and procedure and estimated deliverable dates

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60. Other Testing Discussion

Description of methods, facilities available, methodology and procedure and estimated deliverable dates

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61. Shareable Link for preliminary OpenRocket/RockSim/ RocketPy Rocket Design File \*

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62. Shareable Link for preliminary Engine File (.rse or .eng) \*

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## High-Altitude Category Additional Questions

63. De you intend to use a class 2 motor or a class 3 motor? \*

*Mark only one oval.*

- Class 2 < 40960 Ns
- Class 3 40960.0001Ns and 889,600Ns (200,000 lb\*s)

64. Do you recognize that a lot of extra paperwork is required for a class 3 and you will have to have your own FAA COA for that flight which will require completion 90 days prior to competition. We can give you a template but your team will have to fill it out and write it yourselves. \*

*Mark only one oval.*

- Yes
- Not Applicable (not class 3)

You have any questions for us?

This section is to communicate anything you feel needs to be addressed or just things on your mind. We strongly suggest that you use the discord for faster communications, although this forum is more private, but so is a direct message.

65. Questions? Comments? Concerns? \*

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