

SAMPLE – NOT FOR CONTEST ENTRY

Entries must be submitted via the electronic submission form to be considered

Genes in Space 2021 Application Form – over 13

Team Leader

First name _____ Last name _____ Age _____

Address _____

Email _____ Phone _____

Grade in School (must be in grade 7 – 12) _____

School or Institution mailing address

Name of school or program

Address _____

Teammates (if any, up to 3)

First name _____ Last name _____ Age _____

Email _____ Grade in School (must be in grade 7 – 12) _____

First name _____ Last name _____ Age _____

Email _____ Grade in School (must be in grade 7 – 12) _____

First name _____ Last name _____ Age _____

Email _____ Grade in School (must be in grade 7 – 12) _____

Name of your adult sponsor (teacher/parent/guardian/other)

First name _____ Last name _____

Email _____ Phone _____

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APPLICATION

1. Describe the scientific problem that you propose to address. What is the question you are trying to answer? What makes it significant, relevant, and interesting? (200 words)
2. State your hypothesis and explain your reasoning. Based on your background research, what will be the main objective of your experiment? (200 words)
3. Outline your experimental plan. How will you use the tools in the Genes in Space Toolkit to test your hypothesis? Be sure to specify the samples you will analyze, controls that you will use, and the possible experimental outcomes. (200 words)
4. Explain why you selected the tools you incorporated into your experimental plan. What makes them a good fit for your research question? (200 words)
5. Justify your use of the International Space Station (ISS) by explaining how the unique environmental conditions found onboard are essential for your experiment. Then explain what future space travelers stand to gain from your experiment. Write your answer as if you were speaking to an audience of non-scientists. (200 words)
6. How did you hear about Genes in Space?
7. Citations (optional)

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SCORING CRITERIA

- I. Have you identified an interesting question? (20 points)
- II. Have you stated a clear and well-reasoned hypothesis? (20 points)
- III. Do you present a clear and actionable experimental plan? (15 points)
- IV. Does your experimental design make sensible and creative use of the Genes in Space toolkit? (15 points)
- V. Does your experiment require the unique conditions found aboard the ISS, and do you make a strong case for the benefits your work will bring to future generations of space travelers? (25 points)
- VI. Does your proposal inspire enthusiasm for your selected topic? (5 points)

