



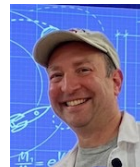
Webinar will start at 12:00 CT

**Welcome to the  
Spring 2026  
TSGC Design Challenge**

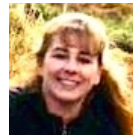
Website: <https://ig.utexas.edu/designchallenge/>



# Welcome to the Spring 2026 TSGC Design Challenge



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# Welcome Teams!

|                                  |  |
|----------------------------------|--|
| Houston Community College        | Pioneer 39                             |
| San Jacinto College              | S.J.F.C - San Jacinto Flight Crew      |
| Tarleton State University        | RELLIS LTV                             |
| Texas A&M University             | 12th Man BioFrontier                   |
| Texas A&M University             | Aggienauts                             |
| Texas A&M University             | Artemis Accords                        |
| Texas A&M University             | Team Daedalus                          |
| Texas A&M University-Kingsville  |  |
| Texas A&M University-Kingsville  | Farscape Engineering Co.               |
| Texas State University           | BOSS Bobcats in Outer Space Structures |
| Texas State University           | Pass Bobc@t                            |
| Texas State University           | RadDAWGS                               |
| Texas Woman's University         | Mercurians                             |
| University of Houston Clear Lake | Cosmic Commanders                      |
| University of Houston Clear Lake | Gamma Rays                             |
| University of Houston Clear Lake | Interstellar Innovators                |
| University of Houston Clear Lake | Space Depot                            |
| University of Houston Clear Lake | Team Beta                              |
| University of Texas at Austin    | Team A                                 |
| University of Texas at Austin    | Team B                                 |
| University of Texas at Tyler     | Aether                                 |
| University of Texas at Tyler     | Astroverse                             |
| University of Texas at Tyler     | LENS                                   |



# Team Notebook

<https://ig.utexas.edu/team-notebook/>

|                               |                           |  |                               |   |                               |
|-------------------------------|---------------------------|--|-------------------------------|---|-------------------------------|
| Program Summary               | Application               | Level 1:<br>Profile,<br>Photos, and<br>Patch | Level 2:<br>Midterm<br>Report | } | Deliverables & Deadlines      |
| Level 3: Video                | Level 4:<br>Poster        | Level 5:<br>Showcase                         | Level 6: Final<br>Report      |   |                               |
| Funding –<br>Team<br>Earnings | Funding –<br>Scholarships | Team<br>Organization                         | Faculty<br>Advisor            | } | Finances<br>Team Expectations |
| Mentor                        | Collaborators             | Field<br>Experience                          | Outreach                      |   |                               |
| Patch Design                  | Tuesday Tag-<br>Up Report | Writing<br>Guidelines                        |                               | } | Deliverable guidelines        |



|   | Level 1        | Level 2        | Level 3        | Level 4        | Level 5     | Level 6       |
|---|----------------|----------------|----------------|----------------|-------------|---------------|
| Applications accepted through                                     | Team Profile   | Midterm Report | Video          | Poster         | Showcase    | Final report  |
| Monday, Jan. 27, 2026   | Friday, Feb 13 | Friday, Mar 13 | Friday, Mar 27 | Tuesday, Apr 7 | April 13-14 | Friday, May 8 |
| Submit weekly Tuesday Tag-Up reports from Level 1 through Level 5 |                |                |                |                |             |               |





# Level 1: Profile, Photos, and Patch

## <Media Release via NASA Gateway Profile>

Deadline: Friday, Feb. 23, 2026 via online Box portal

Teams deliver these:

Team Photo



Patch design



Profile text

**Team Name:** The team was inspired by the arcade game "Mars Invaders." Initially the first designed we made was also in spirit of the mars invaders icon until we found better Patch: The team patch was designed by the team member Jamie Perez. She designed it to represent the spirit of solving issues with habitation on Mars. The patch was inspired by a picture of the solar system which our team leader remembered seeing in his elementary school classroom that first got him interested in space. All of our team members are important to us so we included their names around the border along with our school name to show our school pride. Overall, the patch shows our desire to traverse the univers consciousness of mankind.

**Mars Invaders Uncovered:** The Team Leader is **Rohit Saxena**. His interests include research, programming, and venture startups. He is an officer of Institute for Elec member of Collegiate Entrepreneurship Organization and is currently interning at Adam Hartstein is experienced in solidworks and is interested in the mechanical a aeronautical design. Once graduated, he desires to work with aeronautics or start aerospace. **Jamie Perez** is currently in training for a leadership position for Chi Al She has interests in the betterment of thirdworld Countries through water sanitati working for an organization that helps with the cause. **Reynaldo Gonzalez's** inter electromagnetism and renewable energy. After he graduates he plans on earning his for a company that researches in his interests.

TSGC will create this for Showcase:





# Level 1: Profile, Photos, and Patch

## <Media Release via NASA Gateway Profile>

Deadline: Friday, Feb. 13, 2026 via online Box portal

### 1. Team Profile

- Approximately **400 words (plain text only)**
  - Include project design goals; team members' plans, goals, hobbies, etc.; background on your team's name and patch design; and any other trivia you wish to share; team photo caption (name people left to right, front to back, clockwise).
- Filename: ***TeamProfile-Institution-TeamName.txt*** or ***.docx***  
(Example: TeamProfile-UT-Bevonauts.txt)





# Level 1: Profile, Photos, and Patch

## 2. Team Photos

- Please make sure it is clear
- Good resolution
- Include caption with profile (names left to right, front to back)



Not blurry or low resolution







# Level 1: Profile, Photos, and Patch

## 2. Team Photos

- Photo filename convention:
  - Team: ***TeamPhoto-Institution-TeamName.jpg***
- **NASA media release** via NASA Gateway
  - Instructions online to Create a Student Gateway Profile
  - Enter your data and you will be complete for this step
  - Students with a NASA Gateway account are complete

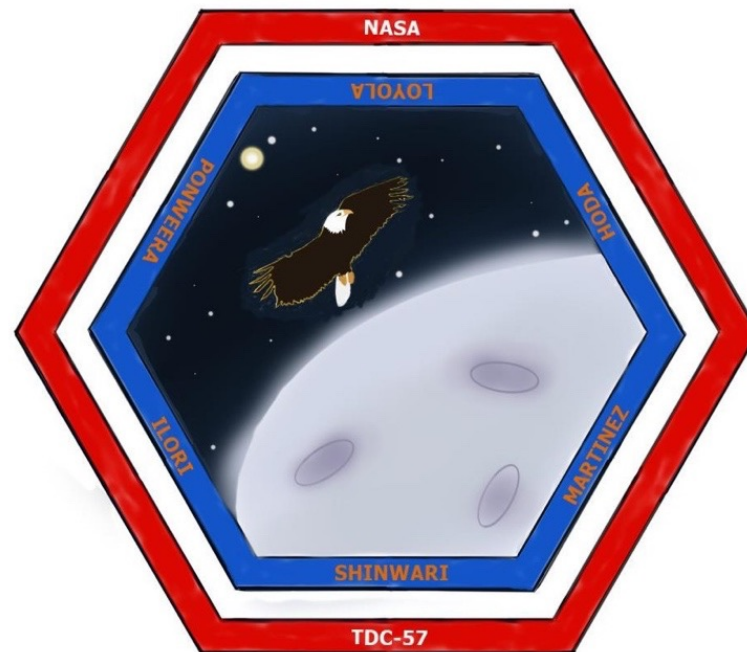
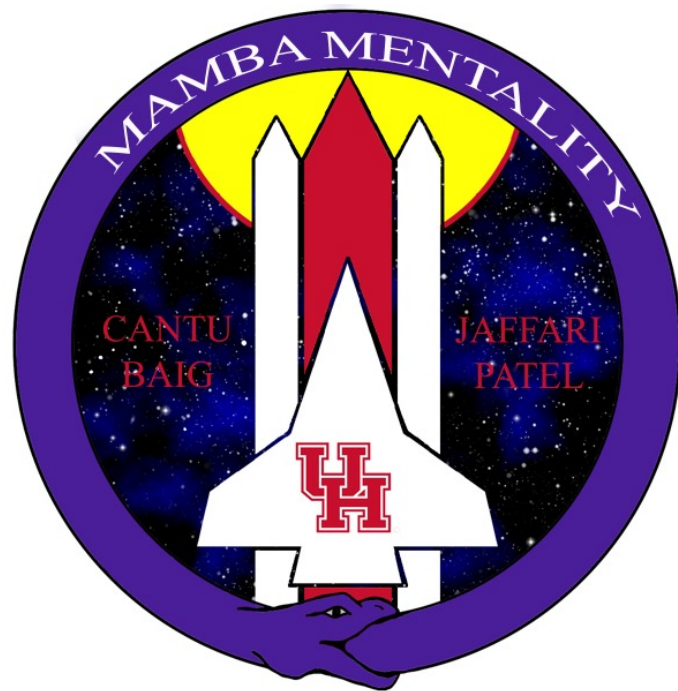


# Level 1: Profile, Photos, and Patch

## 3. Team Patch

- See details and more examples in the Team Notebook
- Filename convention:

***Patch-Institution-TeamName.eps*** (or *.jpg* or *.tiff* or *.png*)





## Level 2: Midterm Report

Deadline: Friday, March 13, 2026

Upload midterm report using the online Box portal.

- Follow the Writing Guidelines
- Filename: ***Midterm-Institution-TeamName.pdf***

### New teams:

- Design concepts take shape
- Customer (Mentor) needs are addressed
- Method of down-selection is implemented

### Returning teams:

- Fine-tune designs
- Report on tests and costs
- Construct model or prototype

*Note: If required by your instructor to submit a Midterm Report in a specific format, you may submit a copy of that report in lieu of the Design Challenge-style Report, as long as all necessary information is included or added. Contact TSGC with any questions.*



## Level 3: Video

Deadline: Friday, March 27, 2026

Upload video using the online Box portal.

### Upload your team video presentation

- Video 60-90 second “elevator pitch”
- Have each team member speak
- End video with everyone saying “We are NASA Space Grant!”
- Filename: ***Video-Institution-Team.MOV*** or *.MPG* or *.MPEG4* (10 GB limit)

### Online Review through Showcase

All Showcase participants and the general public have the opportunity to review team Videos online.





## Level 3: Video

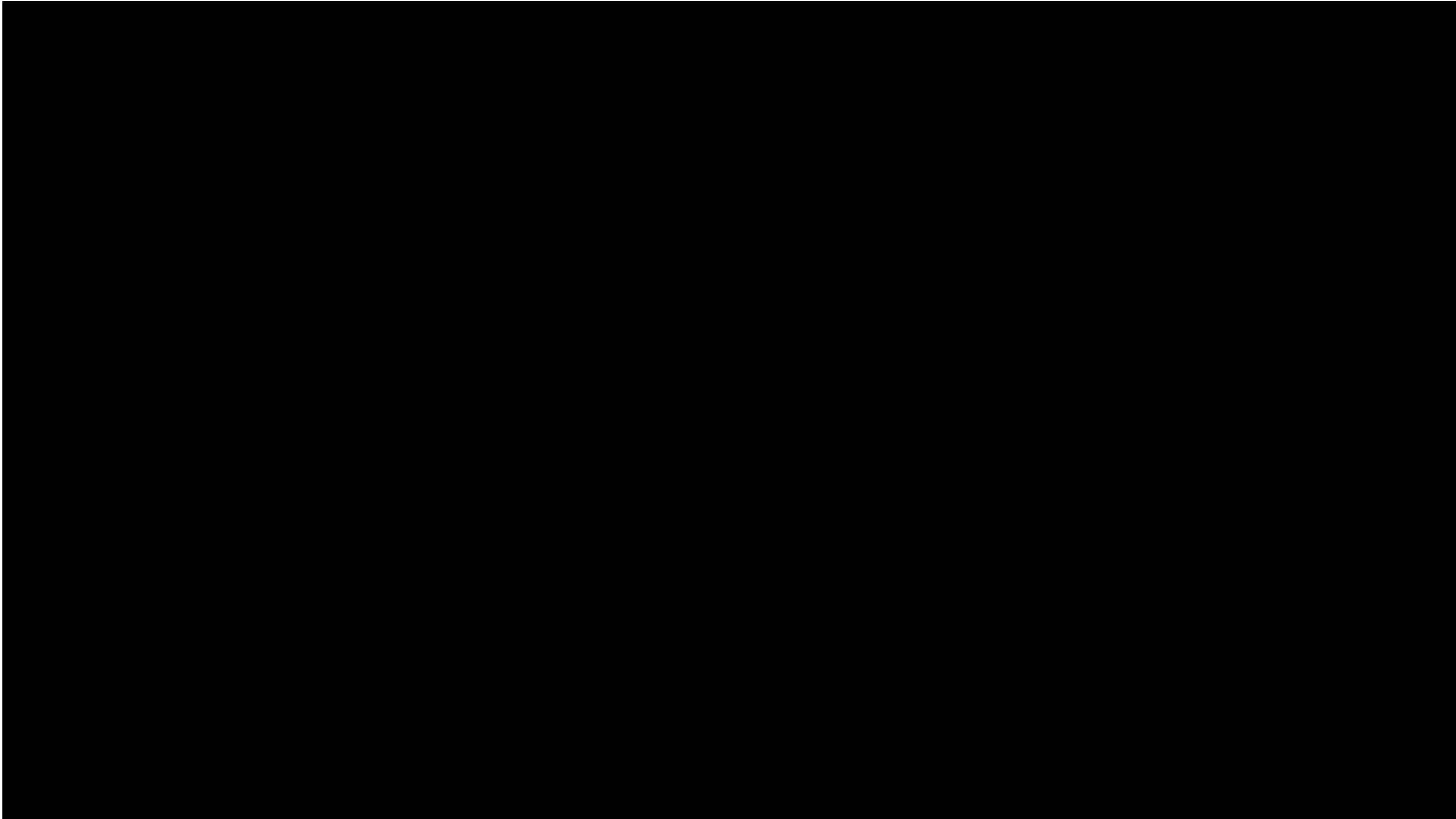
### Your Video is...

- 60-90-second “elevator pitch”
- Short project and team introduction
- Promoted online by TSGC for the Showcase
- Have all team members speak
- End video with “We are NASA Space Grant!”

### Presentation tips

- Use plenty of visuals
- Video creating/testing/performing where possible
- Include photos, graphs, drawings
- Avoid slides with too much information







## Level 4: Poster

Deadline: Tuesday, April 7, 2026

Upload poster using the online Box portal.

### Upload a virtual poster

- Filename: ***Poster-Institution-TeamName.pdf***

### Online Review through Showcase

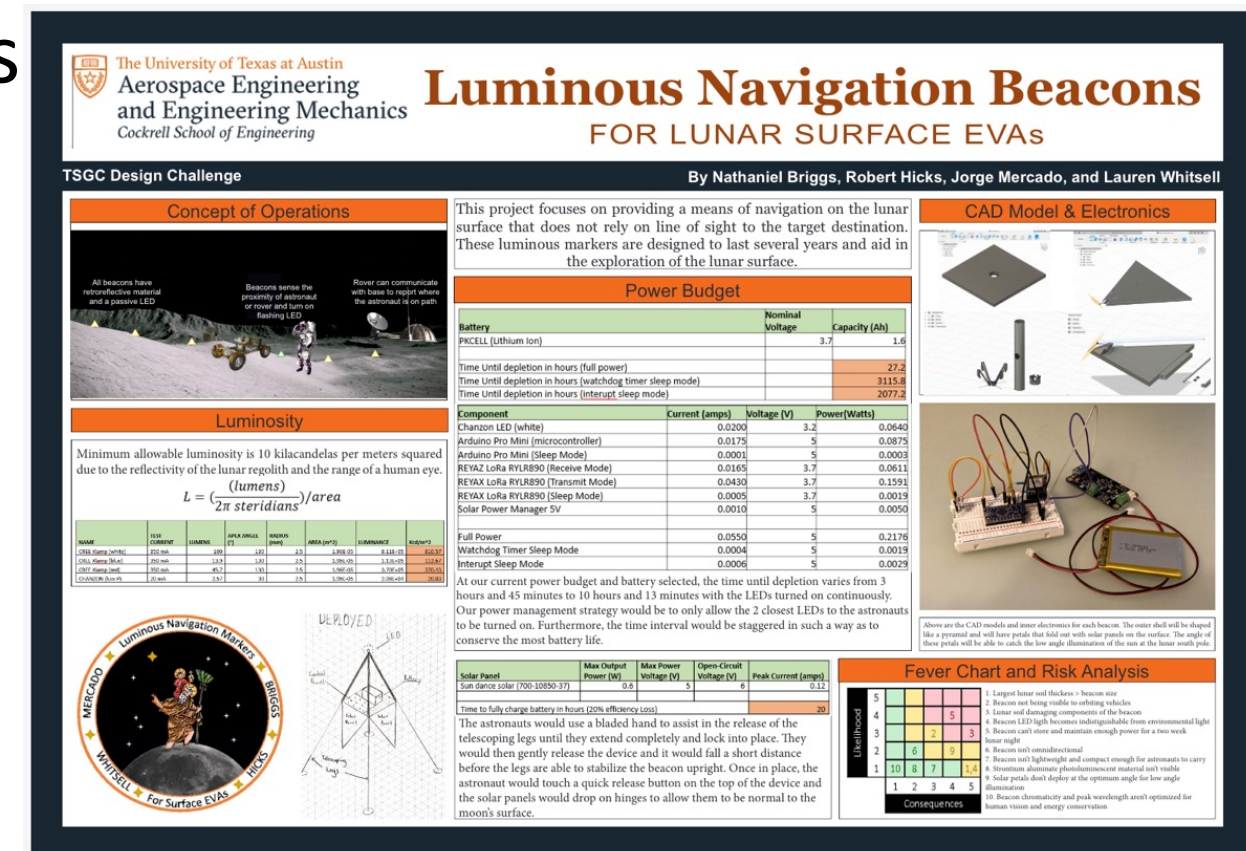
All Showcase participants and the general public have the opportunity to review team Posters online.



# Level 4: Poster

## Poster

- Profile the design project with textual and visual information.
- Easy-to-follow summary of the project for those unfamiliar with the topic.
- Include title, institution, team members, advisor, mentor
- Include at least one student team member's email for any questions.
- Photos of any models, prototypes, schematics, etc. are strongly encouraged.
- Will be made available for online viewing
- Print, mount, and bring to the Showcase
- May be an updated version if necessary







## Level 5: Showcase

Monday-Tuesday, April 13-14, 2026

South Shore Harbour Conference Center in League City, TX

- Day 1: Afternoon
  - Set up and present table display
  - Guest Speaker, visit with other teams, students, NASA and industry
- Day 2: All day – Oral presentations with breaks for viewing the table displays
- Audience of 100-150 people
  - All student teams, Faculty Advisors, Mentors
  - NASA JSC community, academic and industry partners, TSGC representatives, educators and other guests





## Level 5: Showcase

- Teams present slides live (TBD; 10 minutes max) then Q&A
  - Each person should have a chance to speak
  - Practice, practice, practice!
  - Talks will be live-streamed, and you may record yours too.
- 
- Team student and faculty registration will open a couple weeks before Showcase
  - Additional team guests may register for the whole Showcase for a fee





## Level 5: Showcase

### Team Recognition and Awards

- Team recognition and awards (**scholarships**) are presented at the conclusion of the Showcase.
- Several **professionals** act as judges for the poster and oral presentations.
- **Teams** also score each other.
- Judges' scores are normalized, high and low scores for each team are dropped, and the average team score is used to determine team rankings for each award **category** (oral, poster, model, peers).
- **Top Teams** are determined from an aggregate of all category scores and earn scholarships. Only US citizens are eligible for **scholarship** awards.

*TSGC will send eligible team members directions for filling out scholarship acceptance forms.*



## Level 5: Showcase

### Sample scorecard

| POSTER / VIDEO / PRESENTATION   | Low – |   | Avg | – | High |
|---|-------|---|-----|---|------|
| • <b>Visual:</b> Legible text & images, acknowledgements & references, organization, grammar and creativity | 1     | 2 | 3   | 4 | 5    |
| • <b>Background:</b> Project background and research goals clearly explained                                | 1     | 2 | 3   | 4 | 5    |
| • <b>Trades:</b> Design trades support goals and decisions are clearly described and logical                | 1     | 2 | 3   | 4 | 5    |
| • <b>Technical:</b> Team technical understanding demonstrated, work technically sound                       | 1     | 2 | 3   | 4 | 5    |
| • <b>Results:</b> Significant and convincing conclusion, Design Challenge met                               | 1     | 2 | 3   | 4 | 5    |
| • <b>Future:</b> Future work or direction described   | 1     | 2 | 3   | 4 | 5    |
| • <b>Q&amp;A:</b> Good Q&A responses (presentation)   | 1     | 2 | 3   | 4 | 5    |





## Level 6: Final report

Deadline: Friday, May 8, 2026

Upload final report using the online Box portal.

- Follow the **Writing Guidelines**
- **Filename:** *FinalReport-Institution-Team.pdf*
- This report should **build** upon the Midterm Report and should cover all materials generated.
- **Feedback** from the Showcase experience should be incorporated.
- Final-semester teams: **this is your legacy!**

*Note: If required by your instructor to submit a Final Report in a specific format, you may submit a copy of that report in lieu of the Design Challenge-style Report, as long as all necessary information is included or added. Contact TSGC with any questions.*



# Team Earnings



## NEW PROCESS THIS YEAR

1) Get your team funds at the start of the semester

- Each **Institution** has been sent a “**Sponsored Activity Agreement**” to facilitate TSGC payments for the next 4-year grant period.
- Once your institution & UT’s sponsored projects offices complete all agreement paperwork, then your **faculty advisor may invoice for funding**.
- TSGC authorizes **\$1200** payment to the team’s department.
- The team may get **reimbursed through their department** for travel and project expenses. TSGC does not reimburse team members directly.
- The invoicing process is slightly different for teams from UT Austin.
- Note: No funding can be sent until the “**Sponsored Activity Agreement**” is in place for your institution.

2) Outreach is no longer optional

- All teams are expected to perform outreach during the semester



# Team Earnings



## Important Notes:

- All funds received from TSGC must be used for the direct purpose of **addressing the Design Challenge topic**.
- NASA is a federal agency; therefore, some **restrictions** exist on how team money may be spent or distributed.
- Budget carefully. **TSGC is not responsible for covering team over-expenditure.**
- **Funds remaining** at the completion of the team's participation will remain with the Faculty Advisor and may be spent at their discretion.
- Government Shutdown: Any federal budget delay or government shutdown will impact TSGC funding and could impact timeliness, availability, and amount of team earnings, scholarships, and NASA support (including team support from your mentors). Federal funding and support is not guaranteed.



# Outreach

- Present, demonstrate, or display any **STEM-related activity with an audience** (University event/open house, or outreach to K-12 classrooms, scouts, museum, library, or community events, etc.)
- **Promote** Space Grant and your Design Challenge project
- Incorporate outreach at **any time** during each semester (or between semesters for two-semester teams)
- Submit the “Outreach Report” with your final report.







# Outreach

## Outreach documentation you will need

- Include at least **1 photo** of the team conducting the activity
- **500-word description** the activity presented, what the team learned though this outreach, what questions or feedback the team received, and what impact the team believes they made.

## Event information for NASA reporting:

- **Name** of the event or site/**Name** of class or group visited
- **Date(s)** and **duration** of the event (e.g., 2 hours or 2 days)
- **Location** (city & zip code)
- **Audience type and number** of people for each type (estimated)
  - Choose all that apply: **students, educators, public**
  - Include specific student level(s): **elementary, middle school, high school, undergraduates, graduate students**



*Picture 7: Students are Waiting for the Ball to Hit the Foam Cup*



*Picture 8: A Volunteer is Setting Up the Launchers for the Kids*



# Tuesday Tag-Up Reports

## Weekly status report for the project

- Provides an update on accomplishments, changes, issues, concerns, plans
- Does not need to be lengthy
- Lets the *Faculty Advisor, Mentor, and TSGC* know how the team is working, and lets the team know that we are listening.
- If you have weekly class report requirements
  - May be the same report
  - May choose another day of the week

**From:** Student Team Leader or Communication Officer  
**To:** Faculty Advisor, NASA Mentor, Collaborators, TSGC <designchallenge@tsgc.utexas.edu>  
**CC:** All Team members  
**Subject:** Space Blasters – Tag Up – Week #3

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**Team:** Space Blasters  
**Institution:** University of Texas at Austin  
**Topic Title:** Effects of Barbeque Deprivation on ISS Crews

Although this week started off rather slow, it ended on a good note...

**Overall project status:** How is the project going? Is everything on target?

**Activities this week:** What has the team been doing this week? Any meetings?

**Problems encountered:** Any surprises thus far?

**Approximate number of person-hours spent on design activity this week:** How much time did the team devote to the project this week?

**This week's budget items:** Any expenses incurred?

**Activities planned for next week:** What do you have planned for next week?

**Additional comments:** Anything else you want to mention?

***If one single requirement is going to keep the team on track this semester,  
it will be this weekly briefing.***

***Easy to “reply all” each week to ensure tag-up continuity – keep the thread going.***





## More in the Notebook

- Team Organization
- Faculty Advisor
- Mentor
- Collaborators
- Field Experience





## FAQ

### **Q: Can we change the name of our team?**

A: Yes, up until the Level 1 deadline.

### **Q: Can we add team members?**

A: Yes, up to 6 undergraduates may be on a team. Send an email to TSGC about adding or dropping students or faculty. New students please fill out this form: <https://forms.gle/t9r8xaGjqcyXc3U69>. Send new Level 1 materials as necessary. Changes made after the Level 2 deadline may not have time to be incorporated into materials for Showcase.

### **Q: Can we add a faculty advisor?**

A: Yes, please email TSGC their name, affiliation, and email. Each team may have one or two faculty advisors. Additionally, it is highly suggested that teams identify a collaborator or other SME that can support in the event of a government shutdown.

### **Q: What do teams competing in NASA Artemis competitions do for mentor support? (SUITS, Micro-g, etc.)**

A: As described at the application phase, there is no mentor for NASA Artemis competition topics. Reach out to the NASA competition coordinator to ask if a NASA subject matter expert might be available to help your team. Be sure to check and comply with requirements of both programs (Design Challenge and the NASA Artemis challenge). If you need assistance, TSGC can help facilitate.





## FAQ

### **Q: What are the citizenship rules?**

A: - At least half of the students on the team must be US citizens (2 on a 3-4 member team; 3 on a 5-6 member team).

- The faculty advisor(s) & collaborators do not need to be a US citizens.
- Some topics may be ineligible for non-US citizen participation as described in the topic.
- Some site visits may be restricted to US citizens.
- Students who are not US citizens are not eligible for Space Grant scholarship awards.

### **Q: Are two-semester teams automatically renewed for the next semester?**

A: No. Teams must:

- (1) participate in the Showcase and
- (2) submit a satisfactory final report to continue.
- (3) Additionally, teams applying to a NASA Artemis competition must be chosen by NASA to automatically continue in the TSGC Design Challenge. Otherwise team must reapply.



# Thank you for joining the Spring 2026 TSGC Design Challenge

*Website: <https://ig.utexas.edu/designchallenge/>*

*Team Notebook (reference manual): <https://ig.utexas.edu/team-notebook/>*

*Program: [designchallenge@tsgc.utexas.edu](mailto:designchallenge@tsgc.utexas.edu)*

*Admin: [tsgc\\_admin@tsgc.utexas.edu](mailto:tsgc_admin@tsgc.utexas.edu)*