



ALL FEDERAL, STATE, LOCAL AND MUNICIPAL LAWS AND REGULATIONS APPLY. VOID WHERE PROHIBITED. PLEASE NOTE THAT THIS IS NOT A PRIZE DRAW BUT A SKILL--BASED COMPETITION.

**THE NATIONAL SPACE SOCIETY'S PRINT THE FUTURE COMPETITION INVITES ELIGIBLE PERSONS TO SUBMIT A 3D MODEL DESIGN OF A PROJECT/EXPERIMENT THAT ADVANCES THE STATE OF THE ART IN ONE OR BOTH OF THESE AREAS:**

- Additive manufacturing processes in space
- Space structures for future space development and settlement

**THE PROJECT/EXPERIMENT MAY BE BROUGHT BACK TO EARTH AND ITS STRUCTURAL AND/OR NANO-PROPERTIES MAY BE COMPARED TO PRINTS DONE ON THE ANALOG ADDITIVE MANUFACTURING FACILITY ("AMF") LOCATED IN CALIFORNIA, USA. IT MAY ALSO ASSEMBLE OR EXPAND TO BECOME LARGER THAN THE PRINTING BOUNDS OF THE ADDITIVE MANUFACTURING FACILITY ("AMF") LOCATED ON THE INTERNATIONAL SPACE STATION.**

### **Eligibility**

Competition is open to:

1. All students across the globe.
2. Who are 18 years of age or older at the time of entry.
3. Who are Virtual Crew Members of Enterprise In Space.

### **How to Enter**



### **Prizes**

**Step 1:** Sign up each member of your team (up to five persons) as a Crewmember on the [Print The Future Competition Registration page](#). Beam your team up aboard the NSS Enterprise and sign up each team member as a Crewmember on EIS page by February 15, 2017. (If you cannot afford the \$20 Donation to EIS, please contact us here: [ISS@enterpriseinspace.org](mailto:ISS@enterpriseinspace.org))

**Step 2:** Complete your application\* by [registering your team](#) to the Print the Future Competition

**Step 3:** Sign up as a Print the Future Team on Sketchfab, using your Virtual Crew Member Credentials.

**Step 4:** Upload your design submission package to the EIS Academy.

**A submission package must include:**

- One design to the Sketchfab site as detailed in submission instructions.
- A written description, of up to 150 words, entered in the Sketchfab site.
- A written description, of up to 1500 words, four diagrams and/or appendices and bibliographies, with design details explained, entered in the EnterpriseInSpace.org
- Any design to be submitted must be wholly original in concept and not another party's copyrighted or published work.
- Include the checklist and an electronically signed statement of originality provided at the Enterprise In Space website

\*Limit one (1) entry per person, per email address, per team, and per household, for the duration of the Competition Period, regardless of method of entry. Entries may be made by a team of up to five persons, but only one (1) person from that team may submit the entry, adhering to the same rules as single person entrants. No person from a team entry may submit individually or as part of a second team. Entries made by teams should list all of the persons who are part of the team, and include their contact information. Entries received from any person, email address, or household in excess of the stated limitations will be void. All entries become the property of the Sponsors and will not be returned. Entries will be acknowledged at Sponsors discretion.

## Official Rules Print The Future: Competition

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## **1. Eligibility**

The Print Your Future Competition is open to legal residents of the fifty (50) United States, the District of Columbia, all United States of America properties and territories, and all 204 nations of the world, who are 18 years of age or older at the time of entry, and who are crewmembers of Enterprise In Space. Employees of the National Space Society, Enterprise In Space and other companies associated with the promotion of the Competition, and their respective parents, subsidiaries, affiliates and advertising and promotion agencies as well as the immediate family (spouses, parents, siblings and children) and household members of each such employee are not eligible. The Competition is subject to federal, state, and local laws and regulations.

## **2. Sponsor**

The Competition is sponsored by the National Space Society (NSS), located at 1155 15th Street NW, Suite 500, Washington, DC 20005.

## **3. Agreement to Official Rules**

Participation in the Competition constitutes entrants full and unconditional agreement to and acceptance of the Official Rules and the decisions of the Sponsor and judges, which are final and binding. Winning a prize is contingent upon being compliant with these Official Rules and fulfilling all other requirements set forth herein.

## **4. Competition Periods**

Entries may be submitted during the Competition Period from January 1, 2017 until February 15, 2017. Entries submitted before or after the Competition Period will be disqualified. Submissions will be accepted using the following methods: electronic through Sketchfab as per the detailed instructions under How To Enter below. The Competition judging rounds begin on February 15 at midnight UTC and ends on May 28, 2017 at midnight UTC.

## **5. How to Enter**

**Step 1:** Sign up each member of your team as a Crewmember on the [Print The Future Competition Registration page](#)

Beam your team up aboard the NSS Enterprise and sign up each team member as a Crewmember on EIS page by February 15, 2017. (If you cannot afford the \$20 Donation to EIS, please contact us here: [ISS@enterpriseinspace.org](mailto:ISS@enterpriseinspace.org))

**Step 2:** Complete your application\* by [registering your team](#) to the Print the Future Competition

Register your team. You can also review our Cybrary of papers that define the current state of the art in additive manufacturing in space by using your Virtual Crew Member credentials and reading more about space settlement at [nss.org](http://nss.org).

**Step 3:** Sign up as a Print the Future Team on Sketchfab, using the code you received in Step 2 to obtain your free account (\$120 value), and submit your entry and up to 150 words describing how your experiment/project is important to the settlement of space and/or advances the state of the art in 3D printing.

**Step 4:** Upload your design submission package to the EIS Academy.

\*Limit one (1) entry per person, per email address, per team, and per household, for the duration of the Competition Period, regardless of method of entry. Entries may be made by a team of up to five persons, but only one (1) person from that team may submit the entry, adhering to the same rules as single person entrants. No person from a team entry may submit individually or as part of a second team. Entries made by teams should list all of the persons who are part of the team, and include their contact information. Entries received from any person, email address, or household in excess of the stated limitations will be void. All entries become the property of the Sponsors and will not be returned. Entries will be acknowledged at Sponsors discretion.

## 6. Design Submission Requirements

A submission package must include:

- One design to the Sketchfab site as detailed in submission instructions.
- A written description, of up to 150 words, entered in the Sketchfab site.
- A written description, of up to 1500 words, four diagrams and/or appendices and bibliographies, with design details explained, entered in the EnterpriseInSpace.org
- Any design to be submitted must be wholly original in concept and not another party's copyrighted or published work.
- Include the checklist and an electronically signed statement of originality provided at the Enterprise In Space website

## 7. Design Selection

The odds of being selected depend on the number of entries received. The competition will take the form of one preliminary round of judging to narrow the field to no more than 10 semi-finalist teams; these teams will be notified and asked to submit additional information about their experiments; judges will narrow the field to 3 finalist teams who will be invited to the National Space Society's International Space Development Conference® to present their experiment/project papers to the public and a final panel of judges selected by Enterprise In Space for their expertise relating to the state of the art of additive manufacturing in space and useful experiments for living and working in space.

On or about March 7, 2017, Enterprise In Space designees will select 10 semi-finalists from among all eligible entries received. The top ten (10) highest voted designs/experiments will move on to the next round. The second round of voting, called "Semifinalist Round Two", will begin on March 15, 2017 at midnight UTC. During this period, semifinalists will be allowed time to answer additional questions from the judges in writing, to be submitted by April 7, 2015.

Judges will select the top three (3) highest voted designs to move on to the final round. The third and final round of presentations by each team and voting by EIS judges, called the "Finalist Round", will be held at the ISDC in St. Louis, MO, on or about May 25-29, 2017, where up to 3 team leaders will be expected to present their designs/experiments. Finalists unable to travel to the ISDC may record and submit their presentation(s) to EIS for the judges and conference attendees to view at the ISDC. During this period, the panel of judges selected by Enterprise

In Space will select one (1) Grand Prize winner, from the remaining three (3) top entries. Selection of winning entries will be determined by input from Enterprise In Space judges and winners will be notified during the Conference at a plenary or meal event, where all 3 entries will have 2 minutes each for a brief presentation. All decisions are final.

**Program Dates**

EVENTS	STARTS	ENDS
Competition submission	1/1/17	2/15/17
Selection of semi-finalists	2/16/17	3/7/17
Notification of semi-finalist & preparation of questions	3/8/17	3/15/17
Submission of answers to added questions	3/15/17	4/7/17
Judging & selection of Finalists	4/8/17	4/15/17
Finalists prepare to attend ISDC	4/16/17	5/24/17
ISDC attendance/presentation	5/25/17	5/27/17
Selection of Grand Prize Winner	5/27/17	5/28/17
NSS Complimentary Associate Memberships Begin	3/15/17	TBA
Printing available at Made In Space	TBA	TBA
Printing available at ISS	TBA	TBA
Testing available at Prairie Nanotechnology	TBA	TBA
Scholarships available at Kepler Space Institute	TBA	TBA
Tours available at MIS, NASA Houston	TBA	TBA

**8. Winner Notification**

The Sponsor will attempt to notify the potential winners by email, mail, or phone, promptly after each phase. Each potential Grand Prize winner (parent or legal guardian if a minor in his/her state/country of residence) will be required to complete, electronically sign and submit a Declaration of Compliance within five (5) days of the date notice or attempted notice is sent in order to claim his/her prize. If a potential winner cannot be contacted or fails to submit the Declaration of Compliance within the required time period (if applicable), or prize is returned as undeliverable, potential winner forfeits prize.

If the potential winner is at least 18 years of age but still considered a minor in his/her jurisdiction of residence, the Sponsor reserves the right to award the prize in the name of his/her parent or legal guardian, who will be required to sign the Declaration of Compliance on the potential winner's behalf and fulfill any other requirements imposed on the winner set forth herein. Potential winners must continue to comply with all terms and conditions of these Official Rules, and winning is contingent upon fulfilling all requirements. In the event that a potential winner cannot be contacted within seven (7) days after the date of the first attempt to contact him/her, and/or is disqualified for any reason, the Sponsor may select an alternative potential winner in his/her place at random from the remaining non-winning, eligible entries.

**9. Judging Criteria**

Winners will be chosen based on the following:

**1) Scientific Merit (25 points).** Does the project advance or clarify the state of the art in science? Does it explore an original problem or pursue an original approach to an old problem?

**2) Engineering Merit (25 points).** Does the project show a knowledge of engineering processes of requirements development, analysis and testing?

**3) Commercial Potential (25 points).** Does the project have the potential for solving a need in society?

**4) Originality (25 points).** Does the project go beyond textbooks written at the finalists' grade level? Does it show original thinking in the conduct of the project? Is it creative?

Science Fair projects are not expected to be publishable research (although some are). However, originality or creativity is possible even if the project is relatively trivial scientifically or covers well-trodden ground. It is important to take the grade level and age of the finalist into consideration. What is new and creative for a finalist in Grade 7 might well be superficial for a high school finalist in Grade 12. Some aspects of originality/creativity include:

- an original problem or an original approach to an old problem.
- a creative approach to the design of the experiment, the innovation or the project overall.
- an ingenious use of materials and equipment.
- creative or original thinking in the application and the interpretation of any data obtained
- a project that goes beyond textbooks written at the finalist's grade level.

## 10. Prizes

All participants who sign up as Enterprise In Space crewmembers with a minimum \$20 donation to support Enterprise In Space and with qualified entries\*(need to define) in the competition will receive:

- Sketchfab one-year professional account (\$120 value)
- Your name in space aboard the NSS Enterprise spacecraft
- Virtual crewmember certificate. Your name displayed with orbiter at museum after re-entry

Up to ten semi-finalist teams will receive all of the above, plus...

- Project/experiment proposals published in Enterprise Center for Excellence for Additive Manufacturing in Space
- Tour of Made In Space facilities at NASA Ames research Park, Moffett Field in California, (Travel not included)
- Behind-the-scenes tour of NASA Johnson Space Center in Houston, Texas (Travel not included)
- Complimentary associate membership in National Space Society for one year (up to 5 people per team)
- One 3D print at a 3D Hubs station near you to test or document your design and to bring to ISDC for your presentation if you are selected as a finalist

Top three finalist teams will receive all of the above, plus...

- Complimentary registration for the National Space Society's International Space Development Conference®, May 25-29, in St. Louis, MO for up to three (3) team members from each of the three (3) top teams, to present their papers and receive their awards. (travel not included)
- Sketchfab hoodies, T-shirts and VR cardboard (up to 5 people per team to be given out at the ISDC conference (or delivered for teams unable to attend the ISDC)

Grand Prize team will receive all of the above, plus...

- Your item printed in space onboard the International Space Station
- Up to three test prints on Earth in Made In Space facilities
- Scientific evaluation via nano-microscopy at Prairie Nanotechnology (if required)
- Results paper published in *Ad Astra* magazine and industry trade journal for 3D printing
- Scholarships for up to three (3) people from Kepler Space Institute (\$ 5000/person)

## **11. General Conditions**

In the event that the operation, security, or administration of the Competition is impaired in any way for any reason, including, but not limited to fraud, virus, bug, worm, unauthorized human intervention or other technical problems, or in the event the Competition is unable to run as planned for any other reason, as determined by the Sponsor in its sole discretion, the Sponsor may, in its sole discretion, either (a) suspend the Competition to address the impairment and then resume the Competition in a manner that best conforms to the spirit of these Official Rules or (b) terminate the Competition and, in the event of termination, award the prize at random from among the eligible, non-suspect entries received up to the time of the impairment. The Sponsor reserves the right in its sole discretion to disqualify any individual or team it finds to be tampering with the entry process or the operation of the Competition or to be acting in violation of these Official Rules or in an unsportsmanlike or disruptive manner. Any attempt by any person to damage the website or undermine the legitimate operation of the Competition may be a violation of criminal and civil law, and, should such an attempt be made, the Sponsor reserves the right to seek damages (including attorneys fees) and any other remedies from any such person to the fullest extent permitted by the law. Failure by the Sponsor to enforce any provisions of these Official Rules shall not constitute a waiver of this Competition Agreement.

## **12. Release and Limitations of Liability**

By participating in the Competition, entrants agree to release and hold harmless the Sponsor, and each of their respective parents, subsidiaries, affiliates, advertising and promotion agencies, other companies associated with the Competition, and each of their respective officers, directors, employees, shareholders, representatives, and agents (the Released Parties) from and against any claim or cause of action arising out of participation in the Competition or receipt or use of the prize (including travel or activity related thereto), including, but not limited to (a) any technical errors associated with the Competition, including lost, interrupted or unavailable Internet Service Provider (ISP), network, server, wireless service provider, or other connections, availability or accessibility or miscommunications or failed computer, satellite, telephone, cellular tower or cable transmissions, lines, or technical failure or jumbled, scrambled or delayed, or misdirected transmissions or computer hardware or software malfunctions, failures or difficulties; (b) unauthorized human intervention in the Competition; (c) mechanical, network, electronic, computer, human, printing or typographical errors; (d) any other errors or problems in connection with the Competition, including without limitations, errors that may occur in the administration of the Competition, the announcement of the winner, the cancellation or postponement of the event and/or the flyover, if applicable, or in any Competition-related materials; or (e) injury, death, losses or damages of any kind, to persons or property which may be caused, directly or indirectly, in whole or in part, from entrants participation in the Competition or acceptance, receipt or misuse of the prize (including any travel or activity related thereto). Entrant further agrees that in any cause of action, the Released Parties liability will be limited to the cost of entering and participating in the Competition, and in no event shall the entrant be entitled to receive attorneys fees. Released Parties are also not responsible for any incorrect or inaccurate information, whether caused by site users, tampering, hacking, or by any equipment or programming associated with or utilized by the Competition. Entrant waives the right to claim any damages whatsoever, including, but not limited to, punitive, consequential, direct or indirect damages.

## **13. Disputes**

Except where prohibited, each entrant agrees that any and all disputes, claims and causes of action arising out of, or connected with, the Competition or any prize awarded shall be resolved individually, without resort to any form of class action, and exclusively by the appropriate court located in the District of Columbia. All issues and questions concerning the construction, validity, interpretation and enforceability of these Official Rules, entrants rights and obligations, or the rights and obligations of the Sponsor in connection with the Competition, shall be governed by, and construed in accordance with, the laws of the District of Columbia, without giving effect to any choice of law or

conflict of law rules, which would cause the application of the laws of any jurisdiction other than the District of Columbia.

#### **14. Privacy**

Information collected from entrants is subject to sponsors privacy policy, which can be viewed here:  
[http://www.nss.org/docs/NSS\\_Privacy\\_Policy.html](http://www.nss.org/docs/NSS_Privacy_Policy.html)

#### **15. Winner List**

To request the name of the winner send a self-addressed, stamped envelope to Enterprise In Space, c/o Tanya Luken CPA PC, 107 SE Washington, Suite 164, Portland, OR 97214. Winner list requests will only be accepted after the promotion end date (listed above). For the Winner List, you can also consult the Enterprise In Space website.