

## ISSF Graduate Student Fellowship Program

### **ISSF Graduate Student Applications Extended due: December 8, 2017**

The ISSF Graduate Student Fellowship Program has been created to expand Space Safety Engineering awareness and encourage the next generation of student investigators to develop their own ideas for spaceflight safety research. Twice a year, the Program Committee will select and award eligible graduate students pursuing a thesis or research project in the domain of space safety engineering. The domain areas of this program include the following areas:

- Commercial Human Spaceflight Safety
- Space Hazards
- Launch and Reentry Safety
- Space Safety Laws and Regulations
- Human Factors and Performance for Safety.

The ISSF Graduate Student Fellowship Program awards are restricted to applicants enrolled in a university located within a member country participating in the International Space Station (ISS) Program. These countries are: USA, Canada, Japan, Russia and member European countries (Belgium, Denmark, France, Germany, Italy, The Netherlands, Norway, Spain, Sweden, Switzerland, and the United Kingdom). Citizenship in these countries is not required. Awards are restricted to those applicants who are at least undergraduate senior students and are engaged in pursuing post-graduate studies.

The ISSF Graduate Student Fellowship Committee will review received grant applications at the close of each designated deadline and subsequently on an ad hoc basis. Applicants received by the deadline will receive full consideration.

Selected applicants will receive a \$1,000 grant while engaged in post-graduate studies. Accepted students will be assigned a government or industry mentor from the ISSF with expertise in the area of the applicant's proposed thesis or research topic. Additionally, accepted students will receive registration at the 2019 IAASS Space Safety Conference, provided students submit and are accepted to present results from their thesis or research paper at the conference.

Applications may be submitted at any time to:

[fellowship@spacesafetyfoundation.org](mailto:fellowship@spacesafetyfoundation.org)

The Fellowship Program Committee will award fellowships on an ongoing basis.

The next set of applicants will be reviewed when received by the following deadline:

**December 8, 2017**

The committee may review applications at other times, interested students should contact the committee directly and explain their situation.

## ISSF Graduate Student Fellowship Program

To get started:

### **1) Identify a faculty mentor:**

Qualifying student applications will identify a faculty advisor at their university. The advisor will provide scientific and programmatic support during the course of the thesis or research project.

### **2) Develop your idea:**

Select the domain for the thesis or research project: Commercial Human Spaceflight Safety, Space Hazards, Launch and Reentry Safety, Space Safety Laws and Regulations or Human Factors and Performance for Safety. (One primary area must be selected.)

Review the document, 'ISSF-Guidelines-Topics' for clarification on these domains and suggestions for possible topics.

Consider an aspect of spaceflight safety for which the thesis or research project can address.

### **3) Write your proposal:**

The submitted proposal should be 3 pages maximum. This succinct description of your idea should describe the why, the what, and the how. The proposal should clearly identify a hypothesis, the research to be conducted to determine the state-of-the-art, include any proposed simulation or experimental work to be conducted in the course of proving or disproving the hypothesis, and a project completion timeline.

Please ensure the timeline schedule for completing the proposed effort is approved by your faculty mentor and university (if applicable) prior to submission. Your faculty advisor's signature on the ISSF Graduate Student Fellowship Program application page indicates that the timeline and project proposal criteria have been reviewed and accepted as feasible..

### **4) Submit your proposal:**

The submitted final application packet should consist of the following:

- ISSF Graduate Student Fellowship Program application form (with faculty and student signatures)

- Proposal (maximum 3 pages) explaining the thesis or research project

- Timeline schedule for project completion

- Transcripts from undergraduate and/or master degree programs (as applicable)

- Letter of recommendation from a faculty or industry advisor

- Updated résumé.

Please combine all documents (see note below) into a single PDF and submit via email to: [fellowship@spacesafetyfoundation.org](mailto:fellowship@spacesafetyfoundation.org).

**Note:** If applicable, the letter of recommendation and transcript copies may be sent separately by your institution or advisor to [fellowship@spacesafetyfoundation.org](mailto:fellowship@spacesafetyfoundation.org).

## ISSF Graduate Student Fellowship Program

### **4) After the Proposal is submitted**

The ISSF Graduate Fellowship Selection Board will judge the submitted proposals on the basis of scientific/technical merit, creativity, feasibility, and relevance to the field of space safety. All applicants will be notified if their proposal has been selected for an award. Announcements may also be viewed on the ISSF web site approximately one month after each deadline.

After awardees are selected, they will be assigned a government or industry mentor who will provide guidance at determined milestones through the course of their research project. Upon selection, one half of the fellowship funds (\$500) will be disbursed. The remaining half of the fellowship funds will be issued after review by the ISSF Graduate Student Fellowship Committee and determination that the scope of the work is consistent with the proposed thesis or research project.

All final reports, include academic papers and thesis, should include recognition that partial financial support was provided by the International Space Safety Foundation.

The ISSF website may contain links to published results from the fellowship program.

Awardees are highly encouraged to submit an abstract based on their thesis or research project for presentation at the 10<sup>th</sup> IAASS Space Safety Conference to be held in North America (Location TBD) in May, 2019. Registration at the conference is provided for fellowship students selected to present research results at the conference. Travel stipends are currently not included in this fellowship.

ISSF Graduate Student Fellowship Program – Application Form

**STUDENT:**

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Country of Nationality: \_\_\_\_\_

University: \_\_\_\_\_

Graduate Degree being pursued: \_\_\_\_\_

Expected Completion Date: \_\_\_\_\_

Email: \_\_\_\_\_ Phone Number: (\_\_\_\_\_) \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_ I certify that I am a student in good standing at my Institution.

Student Signature \_\_\_\_\_ Date: \_\_\_\_\_

**FACULTY MENTOR:**

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Title: \_\_\_\_\_

Institution: \_\_\_\_\_

Email: \_\_\_\_\_ Phone Number: (\_\_\_\_\_) \_\_\_\_\_

Mailing Address: \_\_\_\_\_

I hereby agree to mentor the above student(s) as needed to satisfy the requirements of the ISSF Fellowship Program by the proposed project deadline.

Faculty Mentor Signature \_\_\_\_\_ Date: \_\_\_\_\_

## ISSF Graduate Student Fellowship Program – Application Form

PROPOSAL:

Proposal Title: \_\_\_\_\_

Area of Research (Please Select One, see ISSF Guidelines/Example Topics):

- Launch and Reentry Safety                       Space Hazards  
 Commercial Human Spaceflight Safety       Space Safety Laws and Regulations  
 Human Factors and Performance for Safety

### PROPOSAL DESCRIPTION

In up to three standard size (8 ½” x 11”) pages, detail your proposed research plan. Describe your current thesis topic and how you intend to incorporate an ISSF component. Include research objectives, hypothesis, data collection strategies, and any simulations or experiments you intend to conduct.

### ADDITIONAL MATERIALS

You will also need to include with the application form and your proposal the following materials:

- Copy of your resume
- Transcripts from your undergraduate and graduate institutions (as applicable)
- Letter of reference
- Project completion timeline

### SCHEDULE

Please outline your expected schedule for your thesis activities. Proposals should assume the following key milestones:

Next Proposal Deadline	December 8, 2017
Winners Notified	4-6 weeks after deadline closure
10 <sup>th</sup> Annual IAASS Conference	
Abstracts Deadline	Fall, 2018
Conference	May, 2019
Summary Report to ISSF	No later than June 1, 2019