

SOLARSIM RESEARCH GRANT APPLICATION AND GUIDELINES

Applications for the SolarSIM Research Grant (SSRG) will be accepted until: December 31st, 2018.

The purpose of the SSRG is to support activities that accelerate, increase or strengthen research in the solar and atmospheric science communities. Spectrafy is making a limited number of its SolarSIM-D2 and SolarSIM-G spectral sensors available for this purpose. For more details on how these sensors can be deployed, visit the Spectrafy website.

A deposit of \$3,000 USD will be required from successful applicants which will be refunded upon return of the sensor at the completion of the program. Full access to the complete suite of SolarSIM functionality (spectral irradiance, total irradiance, aerosol optical depth, PWV, ozone etc.) will be provided for the duration of the program.

Applications will be reviewed by Spectrafy's Research Program Review Committee, which is an advisory committee to the CEO. All Committee decisions are subject to the approval of the CEO. There is no appeal process for the SSRG program.

1. BACKGROUND

Spectrafy was founded from technological research first fostered within a university research environment. The founders of Spectrafy recognize the importance that sponsorship and funding programs have played in on their own academic pursuits and in the successful emergence of Spectrafy as a source of new and innovative solar and atmospheric instrumentation.

As such, Spectrafy would like to acknowledge this debt, by making a number of our innovative SolarSIM sensors available to the research community. We know that the high cost of solar spectral and atmospheric sensors creates a real barrier for researchers, and limits the pursuit of important solar and atmospheric research to only the best-funded institutions.

Our goal with the SSRG program is to accelerate the execution of new and exciting research within the broader solar and atmospheric communities.

2. ELIGIBILITY

Applicants must hold a full-time appointment at a publicly-funded research institution through the period of the grant. Applicants must be primarily responsible for the direction of the proposed research and not under the supervision of another individual.

Only scholarly research will be supported; Teaching and professional development use-cases are not eligible. SolarSIM sensors, once installed, may be shared within the department for such purposes, but the primary application must be to aid in the publication of new scholarly research.

Preference will be given to research proposals within the fields of solar energy, atmospheric science and agriculture. Research proposals within other relevant fields are also encouraged.

Research employing the sensor must be expected to commence within six (6) months of application submission and complete within a 13-month period after receipt of the sensor, though extensions may be granted under some limited conditions. Upon completion of the designated research period, all sensor functionality will expire, except for DNI (for the SolarSIM-D2) and GHI (for the SolarSIM-G). At that time, the undamaged sensor may be returned to Spectrafy for a full refund of the USD\$3,000 deposit, OR the grantee may choose to purchase the sensor. If the sensor is not returned within three (3) months of the end of the designated research period, then a purchase will automatically be deemed to have taken place and the grantee will be invoiced accordingly.

3. APPLICATION PROCEDURES

- A. The SSRG program begins on July 1st, 2017. Applications may be submitted before this date, but will not be reviewed until after the program start date. No submissions will be considered after midnight, December 31st, 2017.
- B. Once the program begins, applications will be acknowledged and reviewed as they are received. Incomplete or handwritten applications will not be reviewed. Applicants can expect to be notified of the outcome within six weeks of submission.
- C. All sections of the application form must be completed in a clear, concise manner, with minimal jargon. Applicants must respect the page lengths specified in the application.
- D. Applicants may be contacted by the Review Committee to verify or follow up on aspects of the application.
- E. Successful applicants will be expected to provide a deposit of USD\$3,000 by bank draft or money transfer before shipment of the sensor.
- F. Applicants are required to submit a one-page final report on the results of the research project within three (3) months of the completion of the project including:
 - i. whether the research achieved its objectives,
 - ii. a summary of the research results,
 - iii. whether the research is expected to be published and when,
 - iv. feedback on operation of the sensor.

SUBMIT APPLICATIONS (BY EMAIL) TO:

SSRG Review Committee
Spectrafy Inc.
4 Florence Street, Suite 204
Ottawa, ON K2P 0W7
Canada

Tel: +1 613 237 2020 Email: info@spectrafy.com



SOLARSIM RESEARCH GRANT APPLICATION

APPLICATION MUST BE TYPED. INCOMPLETE APPLICATIONS WILL BE RETURNED.

NAME: LAST		TELEPHONE:	
MIDDLE		FAX:	
FIRST		E-MAIL:	
POSITION/TITLE:			
INSTITUTION			
DEPARTMENT			
DIVISION			
ADDRESS			

2. APPLICANT BACKGROUND

ATTACH A SUMMARY OF THE FOLLOWING (LINK TO LINKEDIN PROFILE AND/OR CURRENT CV ARE SUFFICIENT)

- a) **Work experience:** List all relevant positions held, beginning with your current position.
- b) **Academic qualifications:** List, in reverse chronological order, all degrees, diplomas, or certificates held.
- c) **Credentials:** List your most relevant awards, distinctions, or professional designations.
- d) **Funded research:** List, in reverse chronological order, the most relevant grants or contracts that you have received from various sources.
- e) **Publications:** List your most relevant professional publications.
- f) **Other information:** Include any other information you feel is relevant to this application.

3. COLLABORATING INSTITUTIONS AND/OR PRIMARY INVESTIGATORS

LIST ANY OTHER ORGANISATIONS OR PRIMARY INVESTIGATORS WHO WILL BE INVOLVED WITH OR BENEFIT FROM THE RESEARCH GRANT.

4. PROJECT TITLE:

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5. PROJECT ABSTRACT (<250 WORDS):**INCLUDE WHAT IS NEW OR INNOVATIVE ABOUT THE PROJECT**

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6. APPLICATION OF SENSORS**WHICH SENSORS AND FUNCTIONALITY WILL BE REQUIRED FOR THE PROJECT?**

SolarSIM-D2 Direct Sensor:

DNI	<input type="checkbox"/>
Custom-range DNI (specify ranges)	<input type="checkbox"/>
Spectral DNI (280-1200 nm)	<input type="checkbox"/>
Spectral DNI (1200-4000 nm)	<input type="checkbox"/>
Aerosol Optical Depth (280-4000nm)	<input type="checkbox"/>
Precipitable Water Vapour – total column and spectral transmission	<input type="checkbox"/>
Ozone - total column and spectral transmission	<input type="checkbox"/>

SolarSIM-G Global Sensor:

GHI/GTI	<input type="checkbox"/>
Custom range GHI/GTI (specify ranges)	<input type="checkbox"/>
Spectral GHI/GTI (280-1200 nm)	<input type="checkbox"/>
Spectral GHI/GTI (1200-4000 nm)	<input type="checkbox"/>

8. DESCRIPTION OF PROJECT:

USE A MAXIMUM OF TWO PAGES. CONCISELY PROVIDE SUPPORTING INFORMATION UNDER THE FOLLOWING HEADINGS, IN SUFFICIENT DETAIL TO PERMIT AN INFORMED JUDGEMENT BY THE SSRG REVIEW COMMITTEE.

- a) Scope and objectives of the proposed research.
- b) Scholarly significance, including potential contribution to knowledge and relation to existing research and literature.
- c) If applicable, its social relevance or practical importance.
- d) If applicable, theoretical approach.
- e) Research plans and methods.
- f) Work already completed and in progress and schedule of work to be done.
- g) Expected means of publication (which journal, conference etc)

9. PROJECT TIMELINE:

USE A MAXIMUM OF ONE HALF PAGE. PROVIDE A SUMMARY OF MAJOR MILESTONES INCLUDING THE FOLLOWING.

- a) Project commencement.
- b) Sensor data acquisition begins
- c) Sensor data acquisition ends
- d) Project completion
- e) Anticipated publication date.

10. OTHER INFORMATION

Percentage of funding that will come from public or institutional sources?	_____ %	
Will results from this research be made public?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Are all necessary funding approvals in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If No, provided projected date for funding approval:	_____	(dd/mm/yyyy)

NAME OF APPLICANT	SIGNATURE	DATE
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FACULTY DEAN / DEPARTMENT CHAIR / SCHOOL DIRECTOR	SIGNATURE	DATE
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