SOLARSIM SENSOR RESEARCH GRANT

SOLARSIM 传感器研究资助

APPLICATION AND GUIDELINES 申请和准则

Applications for the SolarSIM Sensor Research Grant (SSRG) will be accepted until: December 31st, 2018.
SolarSIM 传感器研究基金（SSRG）的申请在 2018 年 12 月 31 日之前有效。

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

SSRG 的目的是支持有意发展、增加或加强太阳能和大气科学机构的研究活动。 为此 Spectrafy 正在设置一定数量的 SolarSIM-D2 和 SolarSIM-G 直接辐射光谱和总辐射光谱传感器用于该活动。 有关如何部署这些传感器的更多详细信息，请访问 Spectrafy 网站。

A deposit of $3,000 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, aerosol optical depth, etc.) will be provided for the duration of the program.

成功的申请人需要缴纳 3,000 美元的保证金，在项目完成、传感器退回后退还。 在项目执行期间将提供完整的全套 SolarSIM 功能软件（光谱辐照度、气溶胶光学厚度等）。

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.

Spectrafy 研究计划审查委员会对申请进行审查，该委员会是首席执行官的顾问委员会。 所有委员会的决定均须经首席执行官批准。SSRG 项目没有上诉程序。

1. BACKGROUND 背景

Spectrafy was founded from technological research first fostered within a university research program. The founders of Spectrafy, Richard Beal and Viktar Tatsiankou, recognize the importance that sponsorship and funding programs had on their own personal success and ultimately on the successful emergence of Spectrafy as a new source of solar and atmospheric instrumentation.

Spectrafy 创立于一项大学研究项目培育的技术研究。Spectrafy 的创始人 Richard Beal 和 Viktar Tatsiankou 认识到，赞助和资助计划对他们自身成功的重要性，而且对最终成功地使 Spectrafy 成为太阳能和大气科学仪器领域的“新宠“会起到重要作用。

To that end, Richard and Viktar would like to acknowledge their debt, by making a number of Spectrafy's SolarSIM sensors available to the solar and atmospheric research community. They know from personal experience that cutting edge spectral and atmospheric sensors can often make up a significant portion of a research budget, and that budget constraints may force restrictions in what research goals are attainable. Important research programs may only be conducted at a small number of well funded global research institutions. due to these budget constraints.

为此，Richard 和 Viktar 愿意向太阳能和大气科学研究机构提供一定数量的 Spectrafy SolarSIM 传感器，以表达感激之情。 基于个人经验他们知道尖端光谱和大气传感器通常在研究预算中占很大比例，预算限制可能会迫使可以达到的研究目标受阻。 由于预算限制，重要的研究项目只能在少数资金充足的国际性研究机构开展。

Our hope is to spur new and innovative ideas from a new generation of global leaders in the solar and atmospheric communities.

我们希望从太阳能和大气科学领域的新一代领军者那里催化新颖及创新的理念。

2. ELIGIBILITY 申请资格

Applicants must be holding a full-time appointment at or be under full time contract for 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.

在项目执行期间申请人必须在公共资助的研究机构全职任职或全时任用。申请人必须主要负责拟议研究的方向，而不是在另一个人的指导之下。

Only scholarly research will be supported; research that is part of a degree program (such as that contributing to research for a doctoral thesis) or associated with professional development (such as curricular development) is 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 publishing of new scholarly research.

只有学术研究才能获得支持; 作为学位课程（如为博士论文研究做贡献）或与专业发展相关的研究（如课程开发）的研究不符合资格。 SolarSIM 传感器一旦安装，可能会因学术研究在部门内共享，但主要应用目的必须是帮助出版新的学术研究。

Research must be in solar or atmospheric sciences

研究必须是太阳能或大气科学领域。

Research employing the sensor must be expected to commence within three (3) months of application submission and complete within a 13 month period, though extensions may be granted under some limited conditions. Upon completion of the research period, all sensor functionality will expire with the exception of DNI (for the SolarSIM-D2) and GHI (for the SolarSIM-G). The undamaged sensor may be returned to Spectrafy at the end of this period for refund of the $3,000 deposit, or can be purchased by simple declaration of intent. A purchase will automatically take place, should the sensor not be returned within three (3) months of the end of the research period.

使用传感器的研究预计在申请提交的 3 个月内开始，并在 12 个月内完成，但在特定条件下或许准许延期。 研究期结束后，除了 DNI（SolarSIM-D2）和 GHI（SolarSIM-G）外，所有传感器的功能都将到期。 未损坏的传感器可能会在研究期结束时返回到 Spectrafy，以退还$ 3,000 的保证金，或者可以通过简单的意向声明购买。如果传感器在研究期结束后 3 个月内不返回，将默认自动购买。

3. APPLICATION PROCEDURES 申请程序

A. The SSRG program begins on July 1st, 2017. Applications may be submitted before this date, but will not be reviewed until after program start. No submissions will be considered after midnight, December 31st, 2017.

A.SSRG 项目自 2017 年 7 月 1 日开始。在此日期之前提交的申请在程序启动后才会进行审查。 2017 年 12 月 31 日午夜后，不再接收任何申请。

B. Once the program begins, applications will be acknowledged and reviewed as they are received. Incomplete or handwritten applications will be returned. Successful applicants can expect to be notified within six weeks.

B.项目一旦开始，申请将在收到后被告知并进行审查。 不完整或手写的申请将被退回。 成功的申请人将在六周内予以通知。

C. All sections of the application form must be completed in a clear concise manner with no technical jargon. Applicants must respect the page lengths specified in the application.

C.申请表格的所有部分必须以明确、简洁的方式填写，不要用技术术语。 申请人必须遵守申请表中指定的页面长度。

D. Applicants may be contacted by the Review Committee to verify or follow up on aspects of the application.

审查委员会可能会联系申请人，以核实或跟进申请的事宜。

E. Successful applicants will be expected to provide a deposit of $3,000 by bank draft or money transfer before shipment of the sensor.

E.传感器发货之前，成功的申请人需提前通过银行汇票或汇款方式提供 3,000 美元的保证金。

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:

F.申请人必须在项目完成后三（3）个月内提交关于研究项目成果的一页最终报告，包括：

i. whether the research achieved its objectives,研究目标是否实现
ii. a summary of the research results,研究结果概要
iii. whether the research is expected to be published and when,研究结果是否出版，何时
iv. feedback on operation of the sensor.传感器操作的反馈

SUBMIT APPLICATIONS TO:

申请提交到：

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

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

Spectrafy™
solar spectral sensors

SOLARSIM SENSOR RESEARCH GRANT APPLICATION
SOLARSIM 传感器研究资助申请

APPLICATION MUST BE TYPED. INCOMPLETE APPLICATIONS WILL BE RETURNED.申请必须规范。不完整的申请将被退回。

NAME: LAST		**TELEPHONE:**	
MIDDLE		**FAX:**	
FIRST		**E-MAIL:**	
POSITION/TITLE: 职务/职称			
INSTITUTION 单位			
DEPARTMENT 部门			
DIVISION 方向			
ADDRESS 地址			

2. APPLICANT BACKGROUND
ATTACH A SUMMARY OF THE FOLLOWING

申请背景

附一份以下内容的概要

a) **Work experience:** List all positions held, beginning with your current position.
b) Academic qualifications: List chronologically (starting with most recent) all degrees, diplomas, or certificates held or expected.
c) Credentials: List up to six awards, distinctions, of professional designations you have received and feel are pertinent to this application.
d) Funded research: List up to eight grants or contracts that you have received from IDRC or other sources. List them in chronological order starting with the most recent.
e) Publications: List your relevant professional publications.
f) **Other information:** Include any other information you feel is relevant to this application.

a）工作经验：列出所有持有的职位，从你现在的职位开始。
b）学历：按时间顺序列出（从最近开始），持有或预期的所有学位、文凭或证书。
c）凭证：列出您所获得的与此项目相关的六个专业奖项。
d）资助研究：列出您从 IDRC 或其他来源获得的八项基金或合同。 以最新的时间顺序列出它们。
e）出版物：列出您的相关专业出版物。
f）其他信息：您认为与此项目相关的任何其他信息。

3. COLLABORATING INSTITUTIONS AND/OR INDIVIDUALS
LIST ANY OTHER INSTITUTIONS OR INDIVIDUALS WHO WILL BE INVOLVED WITH OR BENEFIT FROM THE RESEARCH BEING UNDERTAKEN.

合作机构和/或个人

列出将参与或受益于该研究的所有机构或个人所承担的责任。

4. PROJECT TITLE:

项目名称

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

项目摘要（<250 字）：
包括项目的特色或创新

6. APPLICATION OF SENSORS
WHICH SENSORS AND FUNCTIONALITY WILL BE REQUIRED FOR THE PROJECT?
传感器的应用
项目需要哪种传感器以及它们的功能？

SolarSIM-D2 Direct Sensor: SolarSIM-D2 直接辐射传感器	
DNI	☐
Direct Spectral Irradiance 280-1200 nm 直接辐射光谱（280-1200 nm）	☐
Direct Spectral Irradiance 1200-4000 nm 直接辐射光谱（1200-4000nm）	☐
Aerosol Optical Depth 气溶胶光学厚度	☐
Precipitable Water Vapour 总降水水汽	☐
Ozone Column Depth 臭氧柱厚度	☐
SolarSIM-G Global Sensor: SolarSIM-G 总辐射传感器	
GHI	☐
Global Spectral Irradiance 280-1200 nm 总辐射光谱（280-1200 nm）	☐
Global Spectral Irradiance 1200-4000 nm 总辐射光谱（1200-4000nm）	☐

7. PROJECT VARIABLES
LIST VARIABLES THAT MAY IMPACT THE SUCCESSFUL COMPLETION OF THE PROJECT.

项目不确定性
可能影响项目顺利完成的不确定因素。

8. DESCRIPTION OF PROJECT:
USE A MAXIMUM OF TWO PAGES. CONCISELY PROVIDE SUPPORTING INFORMATION UNDER THE FOLLOWING HEADINGS, IN LAYPERSON'S TERMS, AND SUFFICIENT DETAIL TO PERMIT AN INFORMED JUDGEMENT BY THE RDF REVIEW COMMITTEE.
项目描述：
最多两页。简要以下列标题分别提供相关信息，请使用一般用语，提供必要细节，以便 RDF 审查委员会依据情况，作出判断。

a) Scope and objectives of the proposed research.
拟议研究的范围和目标。
b) Scholarly significance, including potential contribution to knowledge and relation to existing research and literature.
学术意义，包括对学科的潜在贡献和与现有研究及文献的关系。
c) If applicable, its social relevance or practical importance.
如果可以应用，它的社会相关性以及使用价值。
d) If applicable, theoretical approach.
如果可以应用，理论方法
e) Research plans and methods.
研究计划和方法
f) Work already completed and in progress and schedule of work to be done.
已经完成的工作和正在进行的工作进度

9. PROJECT TIMELINE:
USE A MAXIMUM OF ONE PAGE. PROVIDE A SUMMARY OF MAJOR MILESTONES INCLUDING THE FOLLOWING.
项目时间表：
最多一页。 主要内容包括以下方面。

a) Project commencement. 项目启动
b) Sensor data acquisition begins 传感器数据采集开始
c) Sensor data acquisition ends 传感器数据采集结束
d) Project completion 项目完成
e) Anticipated publication date.预计发表日期

10. OTHER INFORMATION

Percentage of funding that will come from public or institutional sources? 来自基金或机构的资金百分比？	_____%	
Will results from this research be made public? 这项研究的结果会发表吗？	☐ Yes	☐ No
Are all necessary funding approvals in place? 必需的基金审批是否到位？	☐ Yes	☐ No
If No, provided projected date for funding approval: 如果尚未到位，提供资金审批日期	_____	

NAME OF APPLICANT **申请者姓名**	**SIGNATURE** **签字**	**DATE** **日期**
FACULTY DEAN / DEPARTMENT CHAIR / SCHOOL DIRECTOR 工作人员/部门主任/学校领导	**SIGNATURE** **签字**	**DATE** **日期**