

ISSI/ISSI-BJ Joint Call for Proposals 2018 for International Teams in Space and Earth Sciences

This Call is jointly made by ISSI (International Space Science Institute) and ISSI-BJ (International Space Science Institute – Beijing), two Institutes sharing the same Science Committee and operating their research activities using the same study tools.

*Successful applicants for International Teams can organize all or part of their team meetings either in Bern or in Beijing, but the applicants are required to show the “**added value**” of ISSI or ISSI-BJ in the applications. The applicants are, therefore, required to **indicate clearly** if they are applying for ISSI, for ISSI-BJ, or for both.*

1. Purpose

The purpose of this Call is to invite proposals for study projects from International Teams

Teams are one of the tools shared by ISSI and ISSI-BJ through which relatively small groups of scientists involved in Space Research can work together in an efficient and flexible format of several subsequent meetings, during which data are analysed and compared with theories and models.

This call is open to scientists of any nationality actively involved in either of the following research fields:

1. Space Sciences: Magnetospheric and Space Plasma Physics, Solar-Terrestrial Sciences, Solar and Heliospheric Physics, Planetary Sciences, Astrobiology, Cosmology, Astrophysics, and Fundamental Physics in Space
2. Earth Sciences using space data

2. Modus Operandi

Proposals for study projects are solicited from international Teams of scientists from different institutions. Projects are carried out through a number of meetings at ISSI/ISSI-BJ over a maximum period of two years from the time of approval. Teams would typically consist of about 8-12 members (with a minimum of three) firmly committed to jointly carrying out the project in the allotted time. One Team leader/coordinator will take the

responsibility for the activity of the Team in all its phases and will ensure the interface with ISSI and/or ISSI-BJ. Although a certain degree of flexibility is desirable and acceptable during the course of the activity, changes to the original membership, as approved during the selection process, must be avoided. Cases of force majeure must be duly justified and approved by ISSI/ISSI-BJ. A Curriculum Vitae (CV) of the new member shall be provided.

Typically a Team would hold two to three one-week meetings over a period of 12-18 months. The first meeting should preferably be organized within the first 6 months but in no case later than 12 months. Projects extending beyond two years will not be considered. The teamwork shall lead to scientific publications in peer-reviewed journals. Authors shall include an appropriate acknowledgement of ISSI and/or ISSI-BJ's support. The Teams will be requested to maintain or help maintain a webpage on the host Institutes' server. The site should include an abstract of the intended research, the Team membership, schedule, and a final report (see Section 9.) as well as the list of papers published in the framework of the project. A password-protected section may be included for use by the Team.

Team leaders and members are strongly encouraged to visit the ISSI and ISSI-BJ web page (www.issibern.ch, www.issibj.ac.cn) prior to submitting the proposal to become familiar with the modus operandi of ISSI and ISSI-BJ and avoid proposing excessive or unrealistic demands for financial support, computing power, and duration of the project.

3. Conditions for Eligibility

Members of the Team will generally hold a doctorate and must firmly commit to their presence during the foreseen periods of activity at the institute. One important criterion for selection is the availability of members to participate in the activities and meetings. It will be the responsibility of the Team leader/coordinator to secure this commitment from the proposed Team members at the time of project submission. Additional conditions to be considered when submitting a proposal include:

- Proposals for study projects are solicited from international Teams of scientists from different institutes and different countries. A minimum of 4 different countries is recommended.
- Teams typically consist of 8-12 members, we encourage the gender balance among the team members, and meet for either two or three one-week meetings not exceeding a total of 24 man-weeks, i.e. for up to 8 members not more than 3 one-week meetings and for 9-12 members not more than two one-week meetings.
- Once a Team is accepted, 15-20% of the total grant will be added for young scientists.
- In addition to the ISSI and/or ISSI-BJ supported core members, the team may propose to add a few self-supported experts (no per diem, accommodation or travel costs will be covered by ISSI and ISSI-BJ).

4. Selection Criteria

The fundamental criteria for acceptance will be the scientific significance of the proposed research, the competence and ability of the Team to carry it to a successful conclusion within the indicated time frame, and the added values to ISSI and/or ISSI-BJ. In detail these will be:

Scientific relevance:

1. Scientific value in relation to the ongoing and/or novel research in the area
2. Potential of the proposal to advance the field
3. Realism of planned access to necessary data
4. Grasp of the scientific problem
5. Compatibility with aims and programmes of ISSI and/or ISSI-BJ

Quality of proposal & Team:

6. Timeliness and feasibility
7. Schedule and plan: is it realistic for completion of the project?
8. Is the Team format relevant to the attainment of the expected result?
9. Does the Team membership cover the necessary competences? Are there deficiencies?
10. International representation of scientists (including ESA Member States) is fundamental.

Added value of ISSI and/or ISSI-BJ:

11. What added value do ISSI and/or ISSI-BJ provide for the implementation of the Team activity?
12. What are the unique capabilities of ISSI and/or ISSI-BJ required to achieve the science goals of the program?

N.B. Weaknesses that may lead to low grading include: lack of focus of the scientific aims, vagueness or lack of realism in planning and schedule, unevenness of the Team membership, non commitment of members, excessive demands on support, or an overstretched schedule.

5. Selection Procedure

As a first step the proposed study projects will be evaluated by ISSI/ISSI-BJ for compatibility with the Institute's guidelines and constraints. Subsequently the applications will be reviewed and evaluated by the Science Committee, against the set of selection criteria listed in section 4. The outcome will lead to the grading of each proposal regarding the scientific relevance, quality of the proposal and Team, and the added value to ISSI and/or ISSI-BJ. Based on these elements, and furthermore on considerations of fair distribution among the disciplines covered by the various projects and of the amount of support requested, ISSI and/or ISSI-BJ will approve for funding a number of projects consistent with an optimum apportionment of the available resources. Since the process is entirely based on competition

and as the resources are limited, it may become necessary to deny funding to Teams that in absolute terms are of good quality but fail to score high enough on the priority scale established by the Science Committee.

6. Organization of the Team, Technical, and Financial support

Logistic support:

ISSI and ISSI-BJ will freely make available meeting rooms, projection facilities, white boards, computers if required (PC-Mac), wire or wireless Internet connection, facilities for teleconferences and for video-conferences using Skype or equivalent, electrical adaptors, etc., and the coffee machine.

Financial support:

ISSI or ISSI-BJ will support through a per diem the living expenses of Team members while residing in Bern or in Beijing. Travel costs will only be reimbursed to the Team leader/coordinator. The leader, whenever an alternative funding source is available, could renounce his/her right to the travel refund in favour of another member. Furthermore some members may be able to secure full or partial financial support for their participation from alternative sources, which would allow for a larger Team to be set up.

Team membership management:

In principle, as stated clearly in Section 2, after approval, any change to the Team membership has to be avoided. In the exceptional case where a change is recommended and justified as highly desirable, the Executive will consult with the Science Committee Chairperson and make a final decision on the proposed modification. Requests for a core member replacement must be supported by adequate motivations and by a CV of the candidate. Additional Experts invited by the Team leader are expected to participate in the work of the Team at no cost to ISSI/ISSI-BJ. Exceptions can be considered and must be duly justified.

Team activity output:

ISSI and ISSI-BJ as a rule does not fund the publication in the scientific literature of the papers resulting from the Team activity in the execution of their project. However, ISSI and ISSI-BJ require that the list of papers published in the framework of the project be sent to ISSI or ISSI-BJ on an annual basis and that acknowledgement to ISSI and/or ISSI-BJ be incorporated in the relevant publications. This list will be part of ISSI and/or ISSI-BJ's annual report and will be used to provide metrics to the institutional and funding agencies.

Young scientists:

Once the proposal is approved, the Team will have access to the Young Scientist scheme, whereby Young Scientists about +/-2 years of the PhD, may be included in the Team, by a determination of the Team leader. As a guideline, that addition is expected to be in the order

of 20% of the person-weeks allocated to the Team. The Young Scientists are not expected to be nominated prior to the approval of the Team.

7. Contents of the Proposal

The proposal should be sent to ISSI and/or ISSI-BJ by the Team leader/coordinator and should include:

- A one page maximum concise abstract summarizing all features of the proposal.
- Scientific rationale, goals, and timeliness of the project.
- List of the expected output e.g., scientific breakthroughs, papers, reviews.
- What added value do ISSI and/or ISSI-BJ provide for the implementation of the Team activity?
- List of confirmed members with (appended) short CVs, i.e., one page for each member, including a short list of publications relevant to the proposed investigation (a template will be provided).
- Schedule of the project, i.e., number and duration of meetings, anticipated periods, list of potential experts etc.
- Facilities required, e.g., computer equipment, access to Internet etc.
- Financial support requested from ISSI and/or ISSI-BJ (see Section 3 and 6).
- Addresses, telephone, fax, e-mail of all participants (to be appended).

** N.B. The length of the proposal must not exceed five pages (excluding annexes), and should be sent as a single pdf file (<5 Mb).

8. Duties of the Team Leader/Coordinator

After selection the successful Team leader shall:

- Refine the schedule of Team meetings in collaboration with the ISSI or ISSI-BJ staff.
- Establish the list of attendees in advance of each meeting so that appropriate hotel block bookings can be made and facilities can be allocated within ISSI or ISSI-BJ.
- Set up and maintain a site on the ISSI web page or provide content for ISSI-BJ web page, describing the aims of the project, the membership of the Team and the schedule.
- Provide to ISSI/ISSI-BJ, on an annual basis, the list of papers published in the framework of the project.
- Commit to contribute to ISSI and/or ISSI-BJ outreach activities in connection to the Teamwork.
- Acknowledge ISSI and/or ISSI-BJ's support in the papers published in the framework of the project.
- After completion of the Team activities, provide a written report describing the achievements of the Team, as written in section 10.

9. Final Report

ISSI and ISSI-BJ consider this report to be of major importance for the Executives of ISSI and ISSI-BJ (and the various institutional and funding authorities) to enable them to assess the quality and potential impact of the team results. It constitutes a key element in the evaluation of the standard of ISSI and ISSI-BJ's performance and scientific output.

The report should be brief (one to two pages), stipulate the main accomplishments, i.e. scientific highlights, of the Team and should be written in such a way as to be understandable to a non-specialist scientist. It is advisable to have illustrations where appropriate. A list of references should be provided, including all articles produced by the Team.

This final report should be available to ISSI and/or ISSI-BJ not later than 3 months after the completion of the Team's activities and should be uploaded to the Team's website.

10. Schedule and Application

Issue of the Call: January 23, 2018

→ **Letter of Intent due on February 20, 2018**

The letter of Intent should contain: Title, abstract, and research domain. We welcome any additional information.

By e-mail to: mfalanga@issibern.ch and/or mfalanga@issibj.ac.cn

→ **Deadline for submission to ISSI/ISSI-BJ: March 28, 2018**

By online submission form <http://www.issibern.ch/proposals/>

Science Committee evaluation and grading: End May 2018

Earliest start of Team activity: July 1, 2018

For further information and questions contact:

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