

**Joint Call for project proposals
2019 - Indo-Danish research and innovation cooperation
in the areas of “Bioresources and Secondary Agriculture”
& “Cyber physical systems”**

Announcement of Call for Proposals: **November 15, 2019**

Deadline for Submitting Proposals: **March 17, 2020 (12.00 Danish Time, 16.30 Indian Time)**

Innovation Fund Denmark (IFD), and Department of Science and Technology (DST), & Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India, announces joint call for submission of project proposal in the areas of “*Bioresources & Secondary Agriculture*” and “*Cyber Physical Systems*”. This is in pursuance to the agreement of May 22, 2018, between the Government of the Republic of India and the Government of Denmark on cooperation in the fields of Science, Technology and Innovation.

1. Prioritised research and innovation areas

1.1 Department of Biotechnology (DBT) Specific Area: “Bioresources & Secondary Agriculture”

The current focus is on solutions that strengthen the bioresource sector by securing resource efficient, environment and climate friendly production of competitive and healthy food and other biological products. There is additional focus on secondary agriculture which provides value addition to agricultural products, creates facilities for primary processing and agricultural stress management and thus endows better return from the harvest of agro commodities. This also strengthens the new opportunities and employment in the rural sector, to grow the rural economy, which is entirely dependent on agriculture.

The target of this Indo - Denmark collaboration is to promote circular economy by utilization of side streams to enhance value creation through research and innovation for the development of new technologies, solutions, services and business models.

1.2 Department of Science & Technology (DST) Specific Area: “Cyber Physical Systems”:

Cyber physical systems (CPS), which are generally concerned with software and data dedicated to complex physical systems, having the purpose of creating smarter and more user-friendly solutions for the involved societies. Examples for the sub-topics include:

- Big data analytics
- Artificial intelligence and cognitive computing
- Cloud technologies
- Network security
- Smart ICT solutions for urban or rural areas

2. Application procedure

The Danish and Indian applicants will develop one joint Project plan and the plan will be sent to both Denmark IFD and India (either DBT or DST as per the subject matter) using the forms of each organisation, respectively. It should be ensured that application with identical title has been submitted from both counterparts.

The proposals falling under the area of “**Bioresources & Secondary Agriculture**” will be sent to DBT, India and IFD, Denmark.

The proposals falling under the area of “**Cyber Physical Systems**” will be sent to DST, India and IFD, Denmark.

Project proposal must include the name of one Principal Investigator (PI) each in India and Denmark. On the Indian side it is advised to include one Co-PI in the proposal. The applications must include a statement on how the proposed collaboration brings added value for both countries.

3. Selection Criteria and Evaluation

DBT, DST and IFD will select the proposals according to their respective institutional procedures and assessment criteria. Special emphasis will be on following criteria:

- The project should have industrial perspective and participation from both Indian and Danish industry is strongly encouraged.
- Innovativeness
- The project proposal should specifically depict the role of each counterpart.
- Research and innovation activities of importance to the expected outcome should be evenly distributed among Indian and Danish counterparts.

4. Funding

The successful projects will be jointly funded by India and Denmark. For Danish counterpart, funding will be disbursed by IFD, Denmark and similarly for Indian counterpart, either by DST or DBT depending on the subject matter. 4-6 projects may be funded for a maximum duration of three years. Significant co-financing as well as the participation of relevant public partners and/or private enterprises other than the main applicants is encouraged.

The project budget must clearly delineate justified Indian and Danish costs. The costs of the Indian partner must be eligible as per the guidelines of the DST or DBT. Accordingly, the costs of the Danish partner must be eligible as per the guidelines of the IFD. As the joint projects are funded in bilateral mode the mobility between the two countries should be balanced. Applicants are reminded to include sufficient budget for travel between India and Denmark to ensure successful collaboration. The sending side will provide round-trip economy-class airfare to the relevant entry city of the host country as well as medical insurance. The receiving side will provide accommodation and living expenses, i.e., transportation for pick-up service to and from the airport, food or per diem, etc.

Kind of support available on the Indian side

- **Support for research expenses:** Respective Department would support expenditure on Indian side of the project towards consumables, minor accessories and contingency. **Participating Indian institutions are responsible for expenses regarding EQUIPMENT.**
- A maximum of 30 - 40% of the Indian side's budget may be allowed for consumables and accessories.
- Participation of Research students would be encouraged. On the Indian side Fellowship to one student to each group (Project Assistant/JRF/SRF/RA) can be supported.
- **Support for Exchange visit component:** The sending side will provide round-trip economy-class airfare to the relevant entry city of the host country as well as medical insurance. The receiving side will provide accommodation and living expenses, i.e., transportation for pick-up service to and from the airport, food or per diem, etc. On the Indian side two persons per year with a maximum of two months stay at a time will be allowed;
- **Institutional Overhead:** Institutional Overhead will be determined in accordance with specific R&D program regulation of Indian and Danish governments.
- While the exact nature of expenditure is not fixed, the following may not be funded from this allocation: consultant's fees, educational expenses, insurance and medical care, equipment, project management fees, temporary staff fees, etc.

5. Proposal Requirements

Proposals must attempt to fully disclose the research ideas and approaches. It is important that proposals are well crafted and provide substantive description of the research plan for a fair review of the scientific/technical plans and approaches. Proprietary or confidential information must be clearly indicated in the proposal. Proposals must not be duplicative or substantially similar to any previous project or proposal submission.

6. Deadline and Submission

The proposal, in English, must be submitted to IFD and DBT/DST (as per subject matter), no later than **March 17, 2020 (12.00 Danish Time/ 16.30 hrs IST).**

5.1 Submission in India:

5.1.1 Applications related to "Bioresources & Secondary Agriculture" (DBT)

The Indian applicants need to apply for funding from the DBT in accordance with the DBT guidelines. The proposal format can be downloaded from **DBT** website: <http://dbtindia.nic.in>. Please note that the Danish partner's signature is required in the application addressed to the DBT by the Indian partner. Indian applicants should submit three hard copies (1 original + 2 photocopies) and soft copy, latest by **March 17, 2020** to the address below:

Dr. Sangita Kasture,

Scientist-E,

Department of Biotechnology,

Room No: 812, Block-2, CGO Complex,

Lodhi Road, New Delhi - 110 003

E-mail: sangita.kasture@nic.in

5.1.2 Applications related to “Cyber Physical Systems” (DST)

The Indian applicants apply for funding from the DST in accordance with the DST’s guidelines. DST advises applicants to make sure that their cooperation partner is eligible to apply for funding from IFD. Please note that the Danish partner’s signature (scanned version) is required in the application addressed to the DST by the Indian partner.

The Indian researchers can download the proposal formats from websites www.dst.gov.in / www.onlinedst.gov.in and should submit completed application form and all relevant information. Proposals must be submitted to DST through the e-application system provided at www.onlinedst.gov.in. Indian Applicants also requested to send **three hardcopies**(1 original + 2copies) to DST by 20th March 2020 to **Dr. Rajiv Kumar, Scientist E**, DST through proper channel. It should be ensured that application with identical title has been submitted by his / her Danish counterpart to IFD by due date.

5.2 Submission in Denmark

The guidelines for the Danish applicants are described in the Guidelines for Grand Solutions, published on December 2018, however only registered legal entities in Denmark are eligible for investments from IFD. Foreign subcontractors are allowed after approval by IFD. For details visit [here](#). The application including the appendix A, B, C and budget should describe the joint proposal and not just the part conducted by the Danish partners. Please note that the budget file template calculates the total investment rate for all the project partners, however the Danish applicants applying to IFD should make sure that the applied investment rates comply (both the individual and total) with the investment rates mentioned in the Guidelines for Grand Solutions.

Proposals must be submitted in Denmark through the application system www.e-grant.dk

7. Assessment

The joint project proposals will be evaluated in India and Denmark according to national procedures and the bilateral evaluation criteria listed above. A consensus decision between DBT, DST and IFD on proposals selected for funding is expected in **July 2020**.

7. Contact details:

India:

**Department of Science and Technology (DST),
Ministry of Science and Technology,
Government of India**

**Dr. Rajiv Kumar
Scientist 'E'**

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<http://www.dst.gov.in/> www.onlinedst.gov.in

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Government of India**

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