



**Academia - Industry Cooperation**

**PSF- TÜBİTAK Joint Funding Program**

**Call for Proposals (CFP)**

**September 2020**

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## Section 1. Acronym List

IP	Intellectual Property
LPI	Lead Principal Investigator
PI	Principal Investigator
R&D	Research and Development
RO	Research Office
HEC	Higher Education Commission



## Section 2. Definitions

**Consultant:** An experienced individual who is trained to advise the research team in order to help them make the best possible choices during execution of the research project. Consultants are generally considered as service providers and offer only advice or propose solutions to problems, but they do not take on roles of the principal investigators such as designing, conducting, or reporting on research. A consultant cannot have any claim on intellectual property related to the project and requires little or no guidance in providing input.

**Grant:** Term used to describe the funding instrument used by TÜBİTAK/PSF for the execution of material support after signing the Grant Agreement/Master Research Funding Agreement.

**Intellectual Property (IP):** All intellectual property rights, of any kind or nature throughout the world, whether existing now or in the future, including without limitation the rights with respect to (i) inventions (whether or not patentable and whether or not reduced to practice), designs, patents and patent applications; (ii) trademarks and service marks together with all goodwill associated therewith and worldwide registrations, applications, and renewals related thereto; (iii) copyrights, copyrightable works (in whatever form or medium), and all registrations, applications, and renewals for any of the foregoing; (iv) trade secrets, data, database rights, and confidential information; and (v) all claims, causes of action, and remedies of any kind related to the foregoing.

**Lead Principal Investigator (LPI):** The Principal Investigator who is identified in the research proposal as the leader and manager of the research team in each country and who has the ultimate responsibility for all administrative and programmatic aspects of the proposed project, in addition to their research role.

**Principal Investigator (PI):** The person designated on the research proposal as a principal individual involved in the scientific development and execution of a project.

**Project Incentive Premium (PIP):** Payments made by TÜBİTAK to principal investigators, researchers, and consultants of the accepted projects, according to the amount determined in the project contract. These payments can only be made to permanent staff of public institutions.

**Researcher:** The person who carries out scientific research as a part of the project research team.

**Research End-User:** Any entity (including industry, public bodies, service providers, non-profit organizations) that does not have research and development activities as part of its main mission and that can benefit from the research outcome of the project.

**Research Team (RT):** It is composed of project members from each country's project.

**Submitting Institution (SI):** Research institution registered inside Pakistan that is responsible for submitting research proposals to PSF. Once awarded, such an entity will be termed as the Awardee. For the Pakistani side, SI has to have appropriate research resources specialized in area(s).

### PSF Specific Definitions

**Awardee:** A "Submitting Institution" that is awarded grant(s) from PSF. The awardee must be a party to the Contract Agreement.

**Capital Equipment:** Items which have a useful life of more than one year and a unit acquisition cost of greater than Rs. 50,000 and are part of the approved budget.

**Collaborating Institution:** Research Institution inside Pakistan collaborating with the submitting institution in conducting the research proposal.

**Consumables and Materials:** Items that are necessary to carry out the project with unit acquisition cost of less than Rs. 50,000.

**Direct Cost:** Expenses related directly to the performance of the project research activities. Direct cost includes the “Personnel” cost, the “Equipment” cost, the “Travel” cost, and the “Miscellaneous” cost.

**Graduate Student (GS):** A student enrolled for a graduate degree in a university and engaged in research that is in direct fulfilment of a requirement for that degree.

**Investigator:** Anyone responsible for the design, conduct, or reporting of funded or proposed research project.

**Post-doctoral Scholar:** An individual who has received a doctoral degree (or equivalent) and is engaged in a temporary and defined period of mentored advanced training to enhance the professional skills and research independence needed to pursue his or her chosen career path. PSF will not provide any stipend to the Post-doctoral scholar.

**Research Office (RO):** A department within the submitting institution responsible for vetting submitted research proposals and administering awarded research projects i.e. ORIC or other administrative institutions.

**Signatures and Stamp of the Head of Institute:** Administrative procedure required from the Awardee’s RO prior to submitting any proposal, reports or requests to PSF, through which the RO confirms the accuracy of submitted information and confirms its compliance with the Awardee’s policies and procedures and those of the relevant program/call.

### Section 3. Call Snapshot

SCOPE	
Submission opens	September 21, 2020 (12pm, Istanbul/Islamabad time)
Submission deadline	November 17, 2020*  *Signed hard copies of the proposals will be entertained in Pakistan side a week after the submission date.  *Deadline for e-signature for Turkish side is November 24, 2020 (23:59 pm, Istanbul/Islamabad time)
Announcement of results	April 2021

Anticipated project start date	After signing the Grant Agreement with the relevant parties, which might take up to 90 days.							
Academia-Industry Cooperation program objectives	The aim of the call is to intensify cooperation between Turkish and Pakistani participants in science and industry by means of Academia-Industry Cooperation projects.							
Specific Research Priority Areas	<ul style="list-style-type: none"><li>– Energy Storage</li><li>– Biomedical equipment and Technologies</li><li>– Food processing and Technology</li></ul>							
Eligible applicants	<ul style="list-style-type: none"><li>• At least one Pakistani research institution/university and one Pakistani commercial company.</li><li>• At least one Turkish commercial company.</li><li>• One academy partner from Turkish side is encouraged but is not compulsory (including public institutions or organizations/research institutions/universities/training and research hospitals.)</li></ul> <p>* Eligibility criteria for project teams and LPIs can be found at Section 7.</p>							
Project Budget	<b>For Pakistani side</b>  Up to Rs.20 million	<b>For Turkish side</b>  Requested funding from TÜBİTAK is up to 1.720.000 TL (excl. PIP and Overhead)  For details; please visit Section 6.1.						
Project duration	Up to 3 years (36 months)							
Funding Rates	<b>For Pakistani side</b>  PSF encourages co-funding (in-kind or in-cash) from industry.	<b>For Turkish side</b>  <table><tr><td>SMEs</td><td>75%</td></tr><tr><td>Large-scale enterprises</td><td>60%</td></tr><tr><td>Universities, public organizations</td><td>100 %</td></tr></table> For details; please visit Section 6.	SMEs	75%	Large-scale enterprises	60%	Universities, public organizations	100 %
SMEs	75%							
Large-scale enterprises	60%							
Universities, public organizations	100 %							
How to apply	<b>For Pakistani side</b>  Please send the proposal per e-mail to <a href="mailto:director.psf@gmail.com">director.psf@gmail.com</a> before the closing date.	<b>For Turkish side</b>  Proposal submission is made through TÜBİTAK’s Project Application System ( <a href="http://uidb-pbs.tubitak.gov.tr">http://uidb-pbs.tubitak.gov.tr</a> ). Turkish partners will use E-Signature for their applications. Detailed information can be achieved via <a href="https://www.tubitak.gov.tr/sites/default/files/281/ardeb_e-imza_yardim_dokumani.pdf">https://www.tubitak.gov.tr/sites/default/files/281/ardeb_e-imza_yardim_dokumani.pdf</a> .  *All Turkish researchers applying to this call should be registered at TÜBİTAK ARBİS (Researcher Information system) through the following link: <a href="https://arbis.tubitak.gov.tr">https://arbis.tubitak.gov.tr</a> .						

<b>Reference Documents</b>	<b>For Pakistani side</b> Guide lines for the Research Projects, please visit (Annecure I)	<b>For Turkish side</b> 1071-Programı Ar-Ge ve Yenilik Çağrılarını Ulusal Başvuru Kuralları: Please visit ( <a href="#">Link</a> ).
<b>IP</b>		<b>For Turkish side</b> Please visit ( <a href="#">Link</a> ).
<b>Contact Person</b>	<b>PSF</b> Dr. Ahsan Feroze Director International Linkages Pakistan Science Foundation 1-Constitution Avenue, G-5/2, Islamabad 051-9205067 ( Ext. 113) <a href="mailto:director.psf@gmail.com">director.psf@gmail.com</a>	<b>TÜBİTAK</b> Dr. Esra Sağlam International Cooperation Department-Bilateral and Multilateral Relations Division The Scientific and Technological Research Council of Turkey Tunus Caddesi No:80, 06100 Kavaklıdere, Ankara <a href="mailto:uidb@tubitak.gov.tr">uidb@tubitak.gov.tr</a>



## Section 4. Background and Objectives of the Call

PSF and TÜBİTAK are jointly launching the Academia-Industry Cooperation call with the aim of supporting joint research projects in the areas of application-oriented research and development. Thus, this call focuses on emerging areas of technologies.

The call aims to enhance Public-Private Partnership in R&D projects by involving academia, research institutions, industrial companies and research end users with the aim to help both countries to become more energy efficient and sustainable.

## Section 5. Research Priority Areas of this Call

The call's research priority areas are aligned with the national strategies of both countries. We are seeking proposals in the below priority areas:

1. **Energy Storage:** Storing energy from different resources in reliable pattern for sustainable use. It may include different forms such as Electrochemical, Thermal, Chemical, Electrical, Mechanical and Fossil fuel storage.
2. **Biomedical equipment and Technologies:** Indigenous production of different biomedical equipment and improvement of existing technologies employed in production.
3. **Food Processing and Production technologies:** Effective technologies for the fresh food processing for enhancing its quality and shelf life.

## Section 6. Funding of the Call

### 6.1. Funding Available

As a rule, Turkish academia/public institution partners that are eligible for funding can receive up to 720.000 Turkish liras (excl. overheads and Project Incentive Premium (PIP)) of funding per proposal and Turkish industry partners can receive up to 1.000.000 Turkish liras (excl. overheads and Project Incentive Premium (PIP)) of funding per proposal in total. Turkish small and medium sized enterprises (SMEs) can receive 75% of the approved budget; Turkish large-scale enterprises can receive 60% of the approved budget. Higher education institutions, their institutes, public R&D centers can receive 100% of the approved budget. Requested funding from TÜBİTAK is obtained by multiplying the project budget with the support rate. In projects involving more than one executive institution, requested funding from TÜBİTAK is the sum of the amounts obtained by multiplying the project budget of each executive institution with the support rate. TÜBİTAK-funded costs of each grant will be issued and managed by TÜBİTAK according to its funding guidelines and procedures (For detailed information please visit ([Link](#))).

Pakistani side is eligible for funding of upto Rs.20 million for a period of three years. The size of the grant may vary depending of the needs of each project and must be fully justified. PSF-funded costs of each grant will be issued and managed by PSF in accordance with its funding guidelines and procedures. The funds allocated under this grant must be spent within Pakistan, no cross border transaction is allowed.

### 6.2. Duration of the Project

The duration of the project will be up to 3 years (36 months).

## Section 7. Eligibility

### 7.1. Eligibility of Proposal



**7.1.1** It is a prerequisite that proposals include the participation of the below as submitting and collaborative institutions:

- At least one Pakistani research institution/university and one Pakistani commercial company.
- At least one Turkish commercial company.
- One academy partner from Turkish side is encouraged but is not compulsory (including public institutions or organizations/research institutions/universities/training and research hospitals.)

**7.1.2** The proposal must be within one or more of the specific research priority areas described in **Section 5**.

**7.1.3** Turkish and Pakistan based teams must each be led by a Lead Principal Investigator (LPI).

## **7.2. Eligibility for Turkish Team**

The Turkish team will receive funding through TÜBİTAK 1071 Programme.

All Turkish researchers applying to this call should be registered at TÜBİTAK ARBİS (Researcher Information system) through the following link: <https://arbis.tubitak.gov.tr>.

For more information about the eligible applicants, please visit ([Link](#)).

## **7.3. Eligibility for Pakistan-based Team:**

### **7.3.1 Eligibility of Submitting Institution**

Regular full time faculty members of HEC recognized universities and full time/regular employee of government owned R&D organizations are eligible to apply.

### **7.3.2 Eligibility of Lead Principal Investigators (LPIs)**

**7.3.2.1** The LPI must be from regular full time faculty members of HEC recognized universities and full time/regular employee of government owned R&D organizations working inside Pakistan.

**7.3.2.2** The LPI should have approved terminal degrees with established research experience

### **7.3.3 Eligibility of Principal Investigators (PIs)**

A PI must be affiliated with a submitting institution in Pakistan or a collaborating institution in Pakistan..

## **7.4. Number of Roles**

For Pakistani side, only one LPI, P.I and graduate students will be paid stipend under this call. However, there is no bar on team members working on volunteer basis in the project.

## **Section 8. Submission Process**

The following table shows important dates for the call.

<b>Timeline For Academia-Industry Cooperation</b>	
<b>Description</b>	<b>Dates</b>
Open proposal submission to PSF and TÜBİTAK	September 21, 2020
Close proposal submission to PSF and TÜBİTAK	November 17, 2020
Notifying ineligible proposals	December 25, 2020

Awards announcement	April 2021
Anticipated starting date	August 2021

## Section 9. Online Submission Procedures

Each LPI will submit the joint application form to their respective funding agencies.

The Turkey-based LPI needs to submit the joint application to TÜBİTAK through <http://uidb-pbs.tubitak.gov.tr>

The Pakistan team will email the soft copy of the proposal on [director.psf@gmail.com](mailto:director.psf@gmail.com) on or before the closing date, followed by the hard copy sent through proper channel.

To complete the application process, PSF and TÜBİTAK might need supporting documents.

**9.1. The supporting documents for Turkish applicants** are available at ([Link](#)).

**9.2. The Pakistan-based LPI is required to provide the below:**

**9.2.1** The LPI may indicate persons they would prefer not to review the proposal and should indicate why. The decision to follow the suggestions or not, however, remains with PSF.

**9.2.2** During the “Proposal Preparation,” the LPI has to submit the information according to the online sections listed below as well as upload documents as required. The LPI must ensure to enter and upload the same information submitted by the Turkish LPI to TÜBİTAK submission system.

**9.2.2.1 Proposal Summary:** This should be the same as the proposal abstract/summary used in the application form.

**9.2.2.2 Submitting Institution’s Information:** A research institution registered inside Pakistan that has appropriate research resources specialized in areas and is responsible for submitting research proposals to PSF. The LPI’s institution in Pakistan will be considered as the submitting institution and will be responsible for vetting the proposal.

**9.2.2.3 Collaborative Institutions’ Information:** Institutions inside Pakistan, collaborating with the submitting institution in conducting the research proposal. If collaborative institutions are involved in the proposal, the LPI should enter the required information for each institution, including uploading an official support letter at Link. Collaborative Institution must include at least one PI.

**9.2.2.4 Personnel:**

- **Research Team:** The LPI can nominate research team members from the submitting and collaborating institutions. PIs are required to be registered in order to be added to the proposal submission.

**9.2.2.5 Turkish Collaborator:** Insert the information about the Turkish LPI and PI(s).

**9.2.2.6 Co-Funding:** In case of co-funding, the LPI is required to provide justification, the total amount of co-funding, including the expected structure of contributions and upload a commitment letter from the co-funder(s) signed by a dean or equivalent. The template is available at [Link](#)

**9.2.2.7 Ethical Compliance:** For research involving human subject(s), stem cells in human subject(s), research with laboratory animals, DNA research and biohazards materials, the LPI is required to comply with the regulations and policies set out by the government of Pakistan.

**9.2.2.8 IP/Market:** In this section, there are some questions related to Intellectual Property that need to be addressed by the LPI.

**9.2.2.9 Miscellaneous Documents:** This section may contain any supporting documents such as tables, appendices, etc. Documents wrongly uploaded under this section will not be considered. All the information required for the evaluation process should be included in the Research Plan.

**9.2.2.10 Declarations:** The LPI should declare electronically that the proposal is their own work and is not plagiarized.

## **Section 10. Proposal Screening**

All submitted proposals are subject to screening for the Pakistan based team by PSF according to the screening process.

All submitted proposals are subject to screening for the Turkish team by TÜBİTAK according to their national rules.

## **Section 11. Proposal Evaluation**

At the national level, each partner organisation evaluates submitted proposals based on its internal rules and regulations. Only projects eligible for both sides, TÜBİTAK and PSF, will go forward for assessment. TÜBİTAK and PSF will evaluate the project proposals according to their scientific evaluation criteria. Both organizations will exchange their scientific evaluation results, and only the overlapping projects that are found acceptable for both parties will be funded.

## **Section 12. Research Ethics and Regulatory Requirements**

**12.1.** Pakistani team has to comply with the Research Ethics and Regulatory Requirements outlined by the Government of Pakistan.

**12.2.** For the Turkish team, please refer to the Ethics Committee Approval Document, Official Permission Document and Research and Publication Ethics Committee Regulation as you can find on the links [\(Link 1\)](#)[\(Link 2\)](#).

## **Section 13. Intellectual Property Policy**

As the research projects will be carried out by multiple project partners, the basis of collaboration between the project partners, including ownership of intellectual property (IP) generated during the project and rights to exploitation, and IP management is expected to be set out in an Intellectual Property Management Agreement between the LPIs involved. It is the responsibility of the LPIs to put such an agreement in place and to be provided when requested by funding agencies. The terms of collaboration must not conflict with the funding agencies terms and conditions and national law.

## **Section 14. Inquiries**

For any inquiry regarding Turkish team and the electronic proposal submission process, please send an email to [uidb@tubitak.gov.tr](mailto:uidb@tubitak.gov.tr).

For any inquiry regarding the Pakistani-based team, please drop an email on [director.psf@gmail.com](mailto:director.psf@gmail.com)