

# TECHNOLOGY TRANSFER FUND WORKSHOPS



Role of Universities in Finding Innovative Solutions & Products through Effective Technology Transfer Mechanisms.

## Capacity Building Workshops:

HEC under the banner of Technology Transfer Support Fund (TTSF) plans to host a series of virtual workshops for the academic community wishing to apply for the upcoming TTSF grants. TTSF is a funding instrument launched by HEC under the Higher Education Development in Pakistan (HEDP) project to support technology transfer of university intellectual property by forging partnerships between academia and industry.

The TTSF will provide funds to selected institutions based upon a competitive, peer-reviewed evaluation of proposals. The anticipated portfolio of TTSF projects will support higher education institutions across Pakistan to undertake research and development activities focused on technology transfer.

In pursuit of the above aims and objectives, HEC plans to organize a series of workshops and webinars with a tentative schedule as below:

### Workshop Themes:

TTSF projects are expected to develop products or services that are marketable and can generate positive cash flow with a focus on the following broad thematic areas:

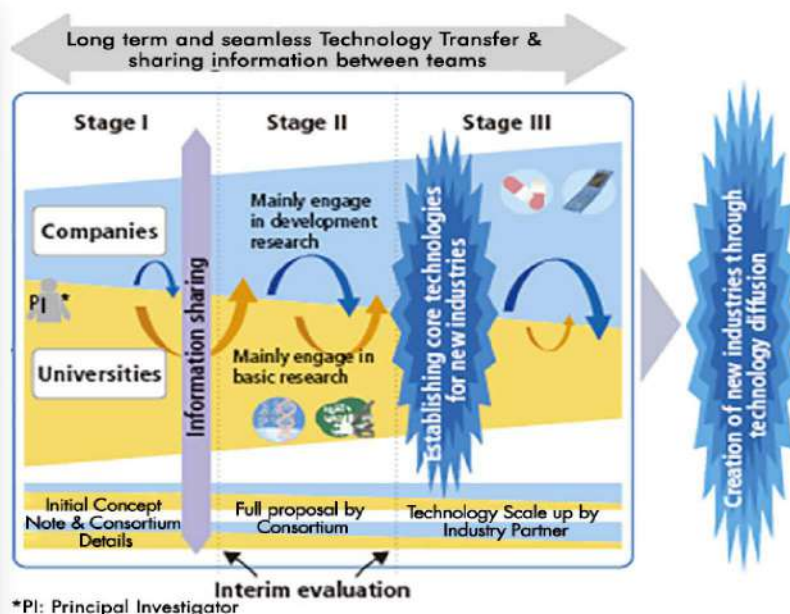
- **Agriculture and Water Management**
  - Seeds & Inputs Indigenization
  - Bio-remediation, Waste Water Recycling etc.
  - Farm mechanization, Precision Agriculture
  - Aquaculture, Meat & Livestock
- **Renewable Energy**
  - Storage technologies, Batteries, Super Capacitors etc.
  - Solar PV Manufacturing
  - W2E, Micro-hydel, Wind Tech
  - Smart & Off-grid Tech
- **Telecommunication & ICT**
  - 5G, IoT, Big Data, AI etc.
  - Drones & Defense Technologies
  - Health-Tech, Agri-Tech, Ed-Tech, Construction-Tech, Fin-Tech etc.
  - Mobile Phone Components
- **Engineering Sciences**
  - Electronics
  - Automotive
  - Electromedical
  - Textiles
- **Materials sciences**
  - Herbal, Indigenous Compounds & APIs
  - Bio/Chemicals
  - Nano-materials
  - Nano-medicines

## Workshops Methodology:

We will facilitate collaboration between academia and industry to exploit current opportunities through the workshops. Industry leaders from the broad thematic areas above will be invited to share their needs and requirements related to R&D while academia will be invited to share their R&D capacity to support them.

HEC is planning a series of workshops with the first focusing on commercialization pathways for the academic and industry stakeholders while the rest of the five focusing on the broad thematic areas discussed above. The workshops will be held from 24<sup>th</sup> August till 14<sup>th</sup> September and structured as follows:

- We will follow a **case study format**, where industry representatives will come and present their area of focus with regards to R&D.
- Interested universities will then be facilitated to engage with the industry representatives in an interactive discussion leading to formation of pairs/consortiums between universities and industry with a clear commercialization pathway for which they require support of TTFS.
- Participatory approach will be taken to prioritize the emerging technologies and opportunities and also give an opportunity to participants to deliberate and provide feedback on how they can contribute towards the knowledge economy by putting Pakistan on a path of indiginization through effective technology transfer programs.
- These workshops aim to provide specific examples of how objective data can be used to develop strategies and industry collaboration models while allowing for brainstorming on practical steps and expectations through sharing of examples and learnings from prior experiences.



\*PI: Principal Investigator

Principal Investigator (PI) Must:

- be a regular faculty member of the Higher Education Institutions (public & private) or hold a contract equivalent to the length of project duration
- co-financing (including in kind or cash contribution) by the industry partner is mandatory

## Workshops Schedule:

Following is the tentative timeline for the said workshops:

S. No.	Workshop theme	Tentative Date	Timings
1.	<b>Panel Discussion:</b> Commercialization Pathways & Case Studies of Successful Industry-Academia Collaborations	24 <sup>th</sup> August	5-7pm
2.	<b>Workshop A:</b> Industry-Academia Collaboration for Achieving Growth through Agriculture & Water Management	1 <sup>st</sup> September	5-7pm
3.	<b>Workshop B:</b> Optimizing Industry-Academia Collaboration to Achieve Energy Security	4 <sup>th</sup> September	5-7pm
4.	<b>Workshop C:</b> Industry-Academia Collaboration for Achieving Growth by Providing Universal Access through Telecommunications and ICT	7 <sup>th</sup> September	5-7pm
5.	<b>Workshop D:</b> Industry-Academia Collaboration for Achieving Self-Sufficiency through Indigenous Local Manufacturing	10 <sup>th</sup> September	5-7pm
6.	<b>Workshop E:</b> Industry-Academia Collaboration for Identification of Industrial and Medical Solutions through Discovery of New Materials	14 <sup>th</sup> September	5-7pm

Women and applicants from disadvantaged areas are encouraged to participate.

For updates and latest, keep visiting HEC website: [www.hec.gov.pk](http://www.hec.gov.pk).

For any further information, please contact [info-r&d@hec.gov.pk](mailto:info-r&d@hec.gov.pk).