

Hand holding of Start-ups

Punjab Engineering College (Deemed to be University), Chandigarh

Proposals are invited under the scheme Hand holding of Start-ups and Industrial Collaboration at Punjab Engineering College (PEC) (Deemed to be University), Chandigarh under the support from **DST-PURSE (Promotion of University Research and Scientific Excellence)**.

I. Scope of Start-up Scheme for Entrepreneurs

- This scheme aims to nurture the talent of young entrepreneurs in addressing **societal challenges** and providing **value-added solutions in biomedical and healthcare applications**.
- The scheme is open to **PEC students, research scholars, and faculty**. The **DST-PURSE Project Implementation Group (PIG)** will mentor selected projects/innovative ideas.
- The scheme enables innovators to demonstrate **feasibility studies, proof-of-concepts, or working models** of ideas that can potentially grow into start-up businesses. Every year, **PEC Chandigarh will fund up to 5 project proposals with a maximum grant of ₹1,00,000/-**.

II. Aim

To identify early, mid, and late-stage innovations addressing challenges in biomedical and healthcare applications, preferably in **biomedical implants and point-of-care healthcare devices**.

III. Domains of Innovation

Applications are invited in the following domains:

1. Biomedical innovations
2. Additive manufacturing in healthcare
3. Point-of-care healthcare devices

IV. Eligibility

- Applicants may apply **individually or as a team** (a team leader must be designated).
- Applicants must be **students, research scholars, or faculty of PEC Chandigarh**.
- Collaboration with external experts/mentors is encouraged, but the **primary mentor must be from PEC Chandigarh**.

V. Category of Application

- Solutions may be at **early, mid, or late stages of Technology Readiness Levels (TRL 1–6)**.
- **TRL 4 and above** will be given preference.
- Applications should target **Product and/or Process Development**.
- Applications must be submitted in a given format (Annexure I) through e-mail: dstpurse@pec.edu.in

VI. Award & Benefits

- **Funding support:** ₹20,000 – ₹1,00,000/- (from DST-PURSE).
 - **Opportunity for follow-up funding and investments.**
 - **Networking opportunities** with industry and funding agencies.
 - **Support for validation studies, commercialization, and deployment.**
 - **Technology showcase** at national/international platforms.
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VII. Committee for Evaluation

- A **Start-up Evaluation Committee under DST-PURSE at PEC** will evaluate proposals.
 - External domain experts may be invited depending on proposal type.
 - Every year, up to **5 best proposals will be selected.**
 - Committee recommendations will be final.
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VIII. Evaluation Process

1. **Originality check:** Proposals must include plagiarism and literature search reports.
 2. **Technical evaluation:** Based on creativity, feasibility, novelty, and applicant capability.
 3. **Shortlisting:** 5–10 proposals per year will be shortlisted.
 4. **Progress Review:** Periodic monitoring by review committee.
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IX. Expected Deliverables

Start-ups/innovators supported under the DST-PURSE Handholding Scheme at PEC will be expected to:

- **Develop a Prototype/PoC** demonstrating the proposed innovation.
 - **Submit periodic progress reports** (technical and financial) to track milestones and challenges.
 - **Advance the TRL level** of their technology, preferably reaching TRL 4–6.
 - **Maintain documentation** of design, experimental results, and validation studies.
 - **Pursue IP protection** (patents, copyrights, or designs) where applicable.
 - **Prepare a commercialization roadmap** outlining potential industry linkages and scaling strategies.
 - **Make a final presentation and demonstration** to the Evaluation Committee and stakeholders.
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X. Core Expertise Available at PEC Chandigarh

- Biomedical and Healthcare Device Development
 - Additive Manufacturing and Rapid Prototyping
 - Advanced Materials and Functional Composites
 - Electronics and Embedded Systems for Healthcare
 - Software and AI-based Product Development
 - Entrepreneurship Development and Innovation Management
 - Data Analytics and AI in Healthcare
 - Industrial Design and Product Engineering
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XI. Schedule of Start-up Application Process & Selection

Sr. No.	Item	Date
1	Call for Applications Open	15/10/2025
2	Call for Applications Close	15/11/2025
3	Shortlisting for Presentations	20/11/2025
4	Presentations by Finalists	24/11/2025–28/11/2025
5	Communication to Selected Innovators/Start-ups	01/12/2025

XII. Evaluation Criteria

S. No.	Evaluation Parameter	Maximum Marks
1	Right Identification of the Problem (Appropriate selection of the problem)?	25
2	Relevance of the Solution (Adequately addressing the problem/need)?	25
3	Quality Features of the Solution (Distinctive features of the solution)?	25
4	Uniqueness of the Solution (Intellectual Property Component)?	25

Annexure I

Idea / Proof of Concept (PoC) Submission Form

Applicant Details

- 1 *Title (Max. 20 words) _____
- 2 Applicant Name(s) _____
- 3 Team Leader (if applicable) _____
- 4 Contact Details (Email / Phone) _____
- 5 Affiliation (Student / Research Scholar / Faculty) _____
- 6 Department / Centre _____

Project Information

- 1 *Sector / Domain (Tick any one) ☐ Biomedical innovations ☐ Additive manufacturing in healthcare ☐ Point-of-care healthcare devices
- 2 *Innovation Type ☐ Product Development ☐ Process Development
- 3 Problem Statement (Max. 200 words) _____
- 4 Proposed Solution / Innovation (Max. 300 words) _____
- 5 Stage of Development (TRL level 1-6) _____
- 6 Expected Outcome (Prototype/PoC/Business Model) _____
- 7 Potential Impact (Healthcare/Society/Industry) _____

Financials

- 1 Estimated Project Cost (₹) _____
- 2 Funding Requested from DST-PURSE (₹) _____
- 3 Applicant/Team Contribution (if any) _____

Declarations

- I/We declare that the information provided is true and original.
- I/We have not submitted this idea elsewhere for duplication of funding.
- I/We agree to abide by the rules and decisions of PEC Chandigarh under DST-PURSE.

Applicant Signature(s): _____

Date: _____