



Institution's Innovation Council - Central University of Jharkhand, Ranchi

Presents

INNOVATION CHALLENGE - 2025

under the aegis of

**Centre for Innovation, Incubation and Entrepreneurship (CIIE),
CUJ**

FOR STUDENTS, START-UPS AND INNOVATORS of CUJ

WINNERS WILL GET CASH PRIZES, INCUBATION SUPPORT, MENTORSHIP AND NETWORKING

Activities involved in Innovation Challenge - 2025

Date of Deadline

Last Date of Proposal Submission	20 th September 2025
Announcement of Shortlisted Proposals	25 th September 2025
Product Prototype Submission & Demonstration	15 th October 2025
Announcement of Result and Award Distribution to the Innovators	30 th October 2025

For details, please contact:

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Strictly FIVE Slides

TITLE PRODUCT/ PROPOSAL

FIELD OF IDEA

STUDENT /GROUP DETAILS (Name and Registration Number Course, Year etc)

DEPARTMENT

Use these FIVE slides ONLY for presenting your proposal. For those who have already submitted please resubmit in this format.



Product Name, Field of Innovation, and Potential Scope/Applications

SOFT S(TAR) GETSkill

FOR

INNOVATION

Startups

Ecosystem

IN THE CATEGORY OF

- Physical Products
- Digital Applications
- Metaverse
- Supply Chain
- Motivations



What is the problem you are solving? Overview of the Solution and Technology/Resources Used ?

MOBILITY
EXPORTS
BUSINESS
IDEA
HACKATHON for MASS DIGITAL
AWARENESS PROGRAMS



Strategic Goals, Market Scope and Audience analysis

- REJUVANATION
- TOYS
- FARM
- LEISURE



Approach, Processes and Supporting Resources

Region Specific Ideas -to- Design & Business



How the Product will Make Money (Tangible Revenue generation strategies and scalable, sustainable profit models) and Its Competitors ?

COMPUTER LITERACY
COLLABORATION IDEAS FOR AGGREGATION
APPLIANCES
CROCKERIES
DAIRY PRODUCTS
PET HELP



Anticipated Technical Challenges and Implementation Barriers.

Region Specific Ideas -to- Design & Business



Thank You

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Prospective Areas of Innovation

1. Mining & Mineral-

A. Value-Added Mineral Processing

- Pelletization of iron ore
- High-purity graphite processing
- Clean coal technologies

B. Mining Tech (Smart Mining)

- Drones and AI for mineral surveying
- IoT sensors for underground safety and productivity
- Eco-friendly blasting and extraction methods

C. Waste to Wealth

- Slag recycling startups
- Mine tailings valorization for cement or ceramic

2. Herbal & Medicinal Plant-Based

A. Natural Health & Wellness

- Nutraceuticals from regional herbs
- Herbal cosmetics and skincare
- Traditional medicine standardization (like Ayurveda)

B. Agri-Biotech

- Cultivation-as-a-Service platforms for medicinal plants
- AI/ML-powered herbal yield optimization
- DNA barcoding for authenticity and quality control

3. Livestock & Agri-Tech

A. Dairy and Meat Processing

- Organic dairy brands (A2 milk, ghee, cheese)
- Traceable meat production using blockchain

B. Animal Health and Productivity

- Livestock wearables for health tracking
- Mobile vet consultation platforms

C. FodderTech

- Hydroponic and vertical fodder growing systems
- Fodder nutritional optimization analytics

4. Forestry & Timber-Based Products

A. Sustainable Timber Products

- Engineered wood (CLT, LVL)
- Eco-furniture startups using smart design

B. Bio-based Packaging

- Timber and plant-waste based packaging to replace plastic

C. Carbon Credits & Forest Tech

- Satellite monitoring of afforestation
- Platforms to monetize forest carbon credits

5. Smart City & Industry-Aligned

A. Energy & Sustainability

- Smart grid solutions using coal-bed methane
- Industrial waste heat recovery startups

B. Smart Infrastructure

- Intelligent transportation systems
- IoT-based building management systems

C. Circular Economy & ESG

- Platforms to help local industries comply with ESG norms
- B2B marketplaces for industrial by-product exchange

6. University-Driven Deep Tech & R&D

A. Material Science & Metallurgy

- High-performance alloys from local ore
- Lightweight composites for transport and construction

B. AI & Industrial Automation

- Predictive maintenance platforms
- Robotics for factory floor or mining automation

C. Environment & Waste Management

- Localized air and water pollution monitoring networks
- Mine reclamation and bioremediation startups

7. Integrated Platforms

- “Farm-to-Pharma” platforms for medicinal herbs
- “Mine-to-Market” platforms for minerals and processed goods
- Supply chain tech for livestock, wood, and minerals