



**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 <sup>th</sup> September 2025
Announcement of Shortlisted Proposals	25 <sup>th</sup> September 2025
Product Prototype Submission & Demonstration	15 <sup>th</sup> October 2025
Announcement of Result and Award Distribution to the Innovators	30 <sup>th</sup> 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