Greenzy Agri Hackathon 2026

One Grand Challenge. Ten Sub-Challenges.

Greenzy is bridging the gap between academic learning and industry-readiness in Protected Cultivation, Hydroponics, and Controlled-Environment Agriculture — starting with the engineers who'll build its next systems.

₹1,50,000 total prize pool — ₹1,00,000 for the Grand Challenge, ₹5,000 for each of the ten Sub-Challenges. Among the highest prize pools currently on offer in Tamil Nadu for a college-level symposium, tech fest, or hackathon.

THE GRAND CHALLENGE

₹1,00,000 Prize

Polyhouse Digital Twin: a CFD Simulation Engine. Build a working prototype, simulation, or platform (a CFD model, a physics-informed simulation, or your own approach) that takes a polyhouse's structural & environmental variables — geometry, ventilation, shading, climate, crop stage — and predicts temperature, humidity, and airflow distribution. Feeds directly into Greenzy's Digital Twin roadmap. **Deliverables:** working prototype + PPT + technical documentation + working notes & proof.

TEN SUB-CHALLENGES

(paper / PPT / concept pitch — no prototype required — ₹5,000 prize each)

01 Low-Cost Sensor Swarm **₹5,000**
Electronics / Electrical

02 Smart Fertigation Scheduler **₹5,000**
AI/ML / CS

03 Phone-Camera Crop Stress Screening **₹5,000**
AI/ML / CS

04 Structural Cost-Down Study **₹5,000**
Civil / Mechanical

05 Energy-Efficient Climate Control **₹5,000**
Electrical / Mechanical

06 Predictive Equipment Maintenance **₹5,000**
Electronics / CS

07 Circular Input Loop **₹5,000**
Mechanical / Agri

08 Farmer-Facing Diagnostic Assistant **₹5,000**
CS / AI/ML

09 Low-Cost Post-Harvest Cold Chain **₹5,000**
Mechanical / Electrical

10 Yield & Revenue Forecasting Model **₹5,000**
AI/ML / CS / Agri

HOW IT RUNS

01	**Communicated to colleges**	End of September 2026
02	**Awareness workshops & interest collection**	October – December 2026
03	**Team registration deadline**	By 21 December 2026
04	**Build phase**	22 Dec 2026 – 20 Jan 2027
05	**Submission**	21 – 25 Jan 2027
06	**Evaluation**	26 – 28 Jan 2027
07	**Sub-Challenge pitching**	29 Jan 2027
08	**Grand Challenge pitching, results & prize money**	30 Jan 2027

WHY IT'S WORTH YOUR TIME

- A ₹1.5 lakh prize pool — among the highest on offer in Tamil Nadu for a college-level event right now
- A direct line into Greenzy across Civil, Mechanical, AI/ML, CS, Electrical & Electronics roles
- A problem pulled from a real, active polyhouse — not a hypothetical
- Mentorship from Greenzy's own technical and field teams
- A shot at building the first piece of Greenzy's Digital Twin

Apply or learn more:

greenzy.in/students/agrihackathon2026 · agrihackathon2026@greenzy.in

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Educational Institutions Outreach — Greenzy