

**Andhra Pradesh Capital Region Development Authority, Rayapudi,
Amaravati.**

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INTERNSHIP NOTIFICATION 02/2026.

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Digital Amaravati Internship programme

1. Why this programme

Amaravati is a greenfield capital. Within two years it will host government offices, universities, businesses and hundreds of thousands of residents who expect to deal with the city without visiting an office, carrying a paper or standing in a queue. Because nothing has to be unwound, Amaravati can adopt the most advanced ideas in digital government from day one: an agentic AI front door for every service, a city digital twin, autonomous-ready mobility, sensor-driven utilities and a privacy-first safety grid.

Interns do not shadow officers. Each owns one problem statement from Section 4, works with an APCRDA officer and a technical mentor, and leaves behind a working prototype or data product that the Authority will take forward.

2. Who we are looking for

- **Eligibility:** Final-year students of B.Tech, B.E., M.Tech, in a computing or engineering discipline, and graduates within 12 months of completion.
- **Institutions:** IITs, NITs, IIITs, IISc, IISERs and BITS, and top-ranked state engineering universities. Exceptional candidates from any institution with a strong portfolio (GitHub, publications, competition record) are welcome.
- **Disciplines:** Computer science and information technology; artificial intelligence, machine learning and data science; electronics, embedded systems and IoT; electrical and energy systems; geoinformatics and remote sensing; and civil engineering with a computational, BIM or GIS focus.

3. Programme structure

Element	Details
Duration and tracks	Summer track: 8 to 10 weeks Semester track: 16 to 24 weeks for final-year projects, hybrid.
Stipend and support	Up to Rs 25,000 per month for interns.
Mentorship and cohort	One APCRDA officer and one technical mentor per intern. 25 to 40 interns per cycle, in squads of 3 to 4 around related problems. Weekly reviews and fortnightly demos to senior management.
Outcomes	Prototype deployed in an APCRDA staging environment, technical report and final demo to the Commissioner. Top performers receive a pre-placement offer to APCRDA's Digital Cell, recommendation letters and authorship credit on published work.

Intellectual property	Work product belongs to APCRDA and is released as open source or open data wherever possible. Interns may showcase it in portfolios and publications.
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4. Problem statements

Statements are scoped so that a capable intern can deliver a credible first version within the internship. Applicants choose up to two in order of preference and may propose a variant.

ID	Problem	What you will build	Skills
A. Citizen experience and government operations			
DI-01	Amaravati One: super-app and digital wallet	One login for every city service, with a verifiable-credential wallet (DigiLocker, Aadhaar, property, licences), UPI payments, proactive due-date nudges and end-to-end application tracking.	Full-stack, UX, India Stack APIs
DI-02	Agentic AI citizen assistant (Telugu, English, voice)	An agent on WhatsApp, IVR and web that completes tasks rather than answering questions: fills applications from a conversation, fetches documents, books slots, pays fees and follows up, grounded in official rules with audited refusals.	LLM agents, RAG, speech, Indic NLP
DI-03	Faceless building permission with AI plan scrutiny	Automated reading of BIM, DXF and PDF plans, a rule engine checked against Amaravati bylaws, instant approval of compliant low-risk cases, and drone-plus-AI post-construction compliance checks against the approved plan.	Computer vision, BIM, rule engines
DI-04	AI grievance and field-work engine	Complaints from text, photo, voice or camera feed auto-classified, geo-routed to the responsible crew, tracked against SLAs, closed against photo evidence and published on a live public scorecard.	ML, workflow, GIS, product
DI-05	Revenue and property intelligence	Satellite and drone imagery combined with permit data to detect unassessed and under-assessed properties, automate property tax and user-charge billing, and forecast municipal revenue by sector.	Remote sensing, data science
B. Mobility			
DI-06	Smart parking management	City-wide parking as a service: sensor and camera-based occupancy, dynamic pricing, app-based booking, ANPR cashless entry and exit, enforcement automation, and data to cut cruising traffic.	IoT, ANPR, pricing models, mobile

DI-07	EV charging network and e-mobility	A site-selection model for public chargers using traffic, land use and grid capacity; an interoperable OCPP discovery, booking and payment layer; a fleet electrification plan for buses, waste and municipal vehicles; vehicle-to-grid readiness.	Optimisation, OCPP, energy systems, GIS
DI-08	Adaptive traffic and integrated mobility	AI-controlled signals driven by camera counts, emergency-vehicle pre-emption, a Mobility-as-a-Service layer that puts buses, e-rickshaws, bikes and ride-hail on one ticket, and readiness for autonomous shuttles on dedicated corridors.	Reinforcement learning, transport modelling, APIs
C. Infrastructure, utilities and environment			
DI-09	Amaravati digital twin	A living 3D model of the city (GIS, BIM, IoT, construction progress) that simulates flooding, traffic, shading, energy and utility loads before decisions are taken, and monitors construction against plan in real time.	3D GIS, simulation, BIM, game engines
DI-10	Smart water, energy and waste	Smart-meter analytics for leak and theft detection, AI-driven water demand and pressure management, rooftop-solar and microgrid planning, smart streetlighting, and sensor-based waste routing with segregation compliance scoring.	Time-series ML, IoT, energy systems
DI-11	Climate, air and flood resilience	Hyper-local air-quality and heat mapping from low-cost sensors and satellites, real-time flood prediction for the Krishna basin and storm drains, early-warning alerts to citizens, and a climate-risk layer in the digital twin.	Geospatial data, hydrological modelling, ML
DI-12	Drone and robotics operations	A drone operations platform for construction monitoring, encroachment detection, asset inspection and medicine delivery, with an airspace management and safety framework for Amaravati.	Drones, computer vision, robotics
D. Safety, health and community			
DI-13	CCTV data grid and integrated emergency response	Edge AI that turns camera feeds into privacy-preserving events (incidents, encroachment, crowding, safety violations), fused with 112 calls and ambulance and fire dispatch, plus a women-safety layer under a strict retention and audit framework.	Edge AI, video analytics, privacy engineering

DI-14	Digital health and public-health surveillance	An Amaravati health record linked to ABDM, tele-consultation kiosks in every sector, wastewater and syndromic surveillance pipelines for early outbreak detection, and dashboards for the city health officer.	Data engineering, ABDM APIs, ML
DI-15	Participatory governance and open data	A citizen participation platform (participatory budgeting, consultations, service ratings), a city open-data and API marketplace, and an NLP layer that summarises citizen sentiment for decision makers.	Platform engineering, data governance, NLP

5. Selection process

Stage	What happens
Application	CV, a one-page statement of intent against a chosen problem, and links to prior work, submitted at https://crda.ap.gov.in/Careers_Internship_Application
Take-home task (5 days)	A short problem-specific assignment will be given to shortlisted applicants: parse a sample building plan, model parking demand from sample data, design a data model for grievances, or critique a citizen service flow.
Interview	An interview will be conducted by a panel consisting of an APCRDA officer and a technical mentor, focused on the take-home task and the candidate's approach to the problem.
Offer and onboarding	Selected applicants will be offered within 10 days of interview, followed by a pre-reading pack, a data access agreement and a mentor introduction before joining.

Applications can be submitted within 10 weeks from the date of publishing the notification on the website https://crda.ap.gov.in/Careers_Internship_Application.

The requirement of Interns is subject to vary based on the need and APCRDA reserves the right to shortlist the applicants for the Internship notified or to alter /modify/cancel the entire notification.

Vijay Rama Raju V I.A.S,
Commissioner,
APCRDA, Amaravati.