ANNAM.AI

An AI - CoE by the Ministry of
Education in the domain of Digital
Agriculture

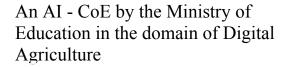**ADVERTISEMENT for the position of Hardware Engineer**

Applications are invited from Indian nationals for the **Hardware Engineer** position to
work in Agri-Tech at ANNAM.AI Foundation, Indian Institute of Technology Ropar.

ANNAM.AI Foundation is a Section-8 not-for-profit company established under the
Ministry of Education, Government of India. The Foundation is creating India's first
Artificial Intelligence Center of Excellence (AI-CoE) in Agriculture at IIT Ropar. The
AI-CoE is envisioned to foster **cutting-edge innovation, interdisciplinary research, and
scalable AI solutions** in agriculture, with a strong focus on **sustainability, environmental
responsibility, and societal impact**.

Job description: Hardware Engineer
Location: IIT Ropar, Punjab
Number of positions: 2
Type of job: Full-time (on contract)

Duration: Initially for 1 year. The contract can be extended based on satisfactory
performance.

Responsibilities
1. Design, prototype, and verify systems for various embedded circuits.
2. Develop and troubleshoot circuits for embedded systems.
3. Create and manage documentation for active projects.
4. Develop tools and techniques for testing and verification.
5. Provide technical assistance to clients.

Qualifications and Essential Skills
1. B.Tech/B.E. or M.Tech/M.E. in Electrical Engineering or equivalent qualification.
2. Minimum one year of relevant experience.
3. Experience in embedded IoT system design.
4. Sound knowledge Pof CB design and software
5. Knowledge of BLE, Wi-Fi, and Controllers
6. Sound knowledge of interface and Communication protocols.

Remuneration:
- In the range of INR 3-5 Lakhs per annum, negotiable depending on experience.
- Age: less than 35 years
- Suitable on-campus accommodation may be provided, based on availability

ADVERTISEMENT for the position of Product Designer

Applications are invited from Indian nationals for the **Product Designer** position to work in Agri-Tech at ANNAM.AI Foundation , Indian Institute of Technology Ropar.

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Job description: Product Designer
Location: IIT Ropar, Punjab
Number of positions: 3
Type of job: Full-time (on contract)

Duration: Initially for 1 year. The contract can be extended based on satisfactory performance.

Responsibilities
1. Design, prototype, and iterate on user-centric products across digital and physical interfaces.
2. Collaborate with cross-functional teams to define product requirements and translate them into functional, visually compelling designs.
3. Maintain detailed design documentation and specifications for active projects.
4. Develop and implement methods for usability testing and design validation.
5. Provide design guidance and support to clients and internal stakeholders throughout the product lifecycle.

Qualifications and Essential Skills
1. B.Tech/B.E. or M.Tech/M.E. in Mechanical Engineering or a related discipline.
2. Proficiency in CAD tools such as SolidWorks, CATIA, or Fusion 360.
3. Strong understanding of manufacturing processes including injection molding, CNC machining, and 3D printing.
4. Experience with design validation, prototyping, and mechanical testing.
5. Knowledge of material selection, tolerance analysis, and DFM/DFA principles.
6. Familiarity with product lifecycle management (PLM) tools and technical documentation.

Remuneration:
In the range of INR3-5 Lakhs per annum, negotiable depending on experience.
Age: less than 35 years
Suitable on-campus accommodation may be provided, based on availability.

ADVERTISEMENT for the position of Software Engineer

Applications are invited from Indian nationals for the **Software Engineer** position to work in Agri-Tech at ANNAM.AI Foundation , Indian Institute of Technology Ropar.

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scalable AI solutions in agriculture, with a strong focus on **sustainability, environmental responsibility, and societal impact**.

Job description: Software Engineer
Location: IIT Ropar, Punjab,
Number of positions: 2
Type of job: Full-time (on contract)

Duration: Initially for 1 year. The contract can be extended based on satisfactory performance.

Responsibilities

1. Design, develop, and deploy AI/ML- based software solutions for Agri-Tech applications.
2. Implement and optimize machine learning models for real-world agricultural problems.
3. Develop scalable backend services and APIs using kotlin and related frameworks.
4. Collaborate with developers and designers.
5. Maintain project documentation.

Qualifications and Skills

1. Education: Bachelor's degree in Computer Science or related field.
2. Skills: Kotlin, Java, Python, Computer Vision , NLP, Generative AI , Cloud platforms (AWS), Machine Learning and API integration.
3. Soft Skills: Problem-solving and teamwork.

ADVERTISEMENT for the position of Firmware Engineer

Applications are invited from Indian nationals for the **Firmware Engineer** position to work in Agri-Tech at ANNAM.AI Foundation , Indian Institute of Technology Ropar.

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Job description: Firmware Engineer

- **Location:** IIT Ropar, Punjab
- **Number of positions:** 2
- **Type of job:** Full-time (on contract)
- **Duration:** Initially for 1 year. The contract can be extended based on satisfactory performance.

Responsibilities

- Develop, test, and maintain firmware for embedded systems used in Agri-Tech applications.
- Integrate sensors, communication modules (BLE, Wi-Fi, GSM, LoRa), and cloud platforms with microcontrollers.
- Work on RTOS-based and bare-metal systems for real-time applications.
- Implement and optimize firmware for low-power IoT devices.
- Debug, troubleshoot, and optimize embedded software for performance and reliability.
- Collaborate with hardware engineers for system bring-up and validation.
- Maintain proper version control, documentation, and testing methodologies.
- Support field deployment, data collection, and remote diagnostics.

Qualifications and Essential Skills

- **B.Tech/B.E. or M.Tech/M.E.** in Electronics/Computer Engineering or equivalent qualification.
- Minimum **one year of relevant experience** in embedded software/firmware development.
- Strong knowledge of **C/C++ programming** for microcontrollers.
- Experience with **RTOS (e.g., Zephyr, FreeRTOS, or similar)**.
- Understanding of **communication protocols**: UART, SPI, I2C, MQTT, HTTP, TCP/IP.
- Knowledge of **wireless connectivity**: BLE, Wi-Fi, GSM/4G, LoRa.
- Hands-on experience with debugging tools, JTAG/SWD, and firmware upgrade methods (OTA/FOTA).
- Familiarity with Git or other version control systems.

Desirable Skills

- Experience with **cloud integration (AWS, Azure, or similar)**.
- Knowledge of **sensor interfacing and low-power design**.
- Exposure to **AI/ML edge computing** will be an advantage.

Remuneration

- In the range of **INR 3–5 Lakhs per annum**, negotiable depending on experience.
- Less than 35 years
- Suitable on-campus accommodation may be provided, based on availability.

How to apply:

CLICK HERE TO APPLY

Last Date to Apply: 10th September 2025

The shortlisted candidates shall be called for online/personal interviews.

Terms and Instructions

- Only shortlisted candidates will be contacted/informed through email.

- AI-COE reserves the right to fill up the post, not to fill up the post, or cancel the advertisement in whole or part without assigning any reason. The company also reserves the right to limit the number of candidates to be called for written tests/or interviews. The decision of the company in this regard will be final.
- Documentary evidence in support of all educational and professional qualifications will be required to be produced when specified.
- The company can verify all the documents submitted by a candidate before the appointment, at the time of appointment, or during the tenure of the service. If it is detected that the documents submitted by the candidates are fake or the candidate has clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
- If it is found later that any information given in the application is incorrect/false, the candidature/appointment is liable to be canceled/terminated.