



**IIT Ropar – Technology and
Innovation Foundation for
Agriculture and Water Technology
Development Hub (AWaDH)**

CIN: U80100PB2020NPL051623

A Technology Innovation Hub established by the
Department of Science & Technology (DST),
Government of India, in the framework of National
Mission on Interdisciplinary Cyber-Physical
Systems (NM – ICPS)

316/317, M.Visvesvaraya Block
Indian Institute of Technology Ropar
E-mail: awadh@iitrpr.ac.in

Advertisement inviting applications for the position of CTO at iHub – AWaDH / IIT Ropar
(Advt No.: CTO/March 2024/01)

TIF – AWaDH is a Technology Innovation Hub in the domain of Agriculture & Water established by the Department of Science & Technology (DST), Government of India, at the Indian Institute of Technology (IIT) Ropar in the framework of National Mission on Interdisciplinary Cyber-Physical Systems (NM - ICPS) to improve the overall ecosystem of agriculture in line with the developed countries.

Job Title: Chief Technical Officer

Applications are invited for CTO at iHub – AWaDH / IIT Ropar.

Roles and Responsibilities:

- Represent the technological agenda in staff meetings and when making hiring decisions
- Identify, compare, select and implement technology solutions to meet current and future needs
- Create overall technology standards and practices and ensure adherence
- Oversee all system design and changes in system architecture
- Supervise system infrastructure to ensure functionality and efficiency
- Take the initiative in thought leadership, innovation and creativity
- Work closely with Marketing, Business Development and Operations to define and deliver new products and enhancements

Skill Sets, Knowledge, and Experience:

- **Educational qualifications:** Master's and Bachelors' in Engineering or equivalent with excellent written and oral communication skills. Higher qualification may be given preference.
- **Experience:** Minimum work experience of 4 years in translational work of research into the product in Industry, association, and similar organizations. Preference will be given to the candidates who have professional work experience in research, innovation, technology development, strategy, marketing and business development, international development in academia, industry or government in India or an International location in the domain of AgriTech and CPS technology.
- Preference will be given to the candidates who have previous working experience as a TO (Technical Officer) or CTO (Chief Technology Officer)
- **Number of vacancies:** up to one
- In-depth knowledge of electronic systems architecture, design and development
- Hands-on experience with project management
- Outstanding communication, interpersonal and leadership skills
- Ability to conduct technological analyses and research
- Proactive problem solving.
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Compensation, Tenure, and other details:

- In the range of INR 12-15 Lakh annual CTC, depending on experience. An initial period of appointment will be two years, extendable based on the performance.
- **Age:** less than 40 years
- **Separation condition:** 1 calendar months' notice in the first year and three calendar months' notice in subsequent years, in writing for separation on either side or salary in lieu of the notice period.

General Instructions:

1. The TIF – AWaDH reserves the right to restrict the number of candidates for the further recruitment process to a reasonable limit, based on age, qualification, experience, etc.
2. The Hub also reserves the right to reject any or all the applications without assigning any reasons.
3. Eligibility of a candidate to the post will not automatically mean that he/she will be shortlisted and called for a further recruitment process. No request in this regard will be entertained for review etc.
4. The selected candidate will be expected to join within two months from the date of the offer of appointment.
5. A person working in Govt. Organization / Autonomous Bodies / PSUs etc., will be required to produce the No Objection Certificate (NOC) before the interview or should send his/ her application through the proper channel.

To apply click here: https://bit.ly/Applicationform_CTO_AWADH

For any query write to office-awadh@iitrpr.ac.in

Last Date for receiving applications: March 21, 2024

Note: Only shortlisted candidates shall be called for the further recruitment process through the e-mail given by the candidate. The decision of the management for the short listing and selection will be final.



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IIT Ropar – Technology and Innovation Foundation (TIF) is a Section – 8 company founded to support the initiatives of recently established Technology Innovation Hub – AWaDH (Agriculture and Water Technology Development Hub) at the Indian Institute of Technology Ropar in the framework of National Mission on Interdisciplinary Cyber Physical Systems (NM – ICPS) by the Department of Science and Technology, Government of India. The TIF support the R&D in the domain of Agriculture and Water, and provides incubation support to technology-based start-ups towards sustainable agriculture and environment.

The R & D domains of AWaDH to deploy CPS are:

- Water/industry discharge assessment, treatment, and management,
- Advancement of land resources and farm preparation,
- Agriculture automation and precision farming,
- CPS in harvesting and post-harvesting, and
- The application of the Internet of Things (IoT) in the domain of Agriculture and Water.

The scientific knowledge and technology advancements achieved at AWaDH will be deployed in (i) Food Processing Industries, (ii) Rural Development, (iii) Fisheries, (iv) Skill Development and Entrepreneurship, (v) Textiles industry for discharge management, (vi) Electronics and IT Industry for the development of IoT devices, (vii) Fertilizer industry for the optimized combinations of nutrients, (viii) Food and Public Distribution, (ix) Atomic Energy, (x) NITI Aayog for implementing different government schemes, (xi) implementation of farming practices in terms of preparation of farmland, pre/post-harvesting, delivery of the agricultural commodities to the consumers, preservation, and storage without affecting the environment.

Some of the technologies that are being developed at AWaDH are: (i) Design and development of IoT enabled nano- bubble technology/oxygen generators for water treatment for remediation of rural domestic and industrial wastewater, (ii) IoT based CPS for the water quality assessment and management, (iii) Technology for the generation and application of crop-residue derived Biochar, (iv) CPS for mapping the naturally occurring and artificially infused radioisotopes in soil and water, and AI-based CPS for optimized fertilizer application, (v) Design and development of IoT enabled Harvester-cum-Bailer machine for Stubble Management, and Extra-ordinary and diversified applications of stubble for better environment and new livelihoods opportunities, (vi) urban farming, (vii) Automation in agriculture for the precision farming in Rural and Urban settings, and (viii) IoT in the Domain of AgriTech Livestock Monitoring in the food processing industry.