



IIT Mandi iHub & HCl Foundation
Technology in Harmony with Human Needs

IIT Mandi iHub & HCl Foundation

Section 8 Not-for-Profit Company

Technology Innovation Hub (TIH) in Human-Computer Interaction (HCl)

Regd. Office: Indian Institute of Technology Mandi, VPO Kamand, Mandi, Himachal Pradesh, India – 175075

EXPRESSION OF INTEREST (EOI) FOR SKILL DEVELOPMENT TRAINING PARTNERSHIP

EOI Ref No: iHub/EOI/2025-26/05

Dated: Oct 15, 2025

EOI Document can be downloaded from following websites:

www.ihubiitmandi.in

E-mail Address:

Avnish@ihubiitmandi.in

Address to:

General Manager

iHub and HCl Foundation

North Campus, IIT Mandi

Salgi Mandi,

Himachal Pradesh

175005

EXPRESSION OF INTEREST (EOI)

Workplace: IIT Mandi iHub and HCl Foundation Office, North Campus, IIT Mandi, VPO Kamand, District Mandi, Himachal Pradesh - 175075

Email: tih@ihubiitmandi.in | **Website:** <https://www.ihubiitmandi.in> | **CIN:** U73100HP2020NPL008102

Regd. Office: Indian Institute of Technology Mandi, VPO Kamand, Mandi, Himachal Pradesh, India – 175075

Dated: Oct 15, 2025

EOI Ref No: iHub//EOI/2025-2026/05

Expression of Interest (EOI) for skill development training partnership.

IIT Mandi iHub and HCl Foundation is a Technology Innovation Hub (TIH of IIT Mandi). It is focused on Human-Computer Interaction (HCl). It is set up by the Indian Institute of Technology (IIT) Mandi under India's National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS).

The vision of IIT Mandi iHub and HCl Foundation is to be an internationally recognised Hub that nurtures HCl research and enables technology translation for industry and skill development.

IIT Mandi iHub and HCl Foundation has been actively involved in skilling youth across the various regions in India. To expand the reach and impact of this initiative, iHub is seeking partners to deliver skill development training programs in locations outside the IIT Mandi campus on an Opex model of costing.

Interested parties / eligible and competent service providers/agencies, meeting the eligibility criteria as per EOI document may submit their offer in prescribed application form under two bid systems.

The important information and schedule related to EOI:

Date of Issue/Publishing	Oct 16, 2025
Start date and time of submission of bids	Oct 17, 2025
Last date and time for submissions of bids	Nov 07,2025 up to 5:00pm
Date and time of opening of EOI/ Technical bid	Nov 10,2025 at 3:00pm
EOI processing fee (Non-refundable)	Nil
Cost of EOI document / Registration fee	Nil
Place of submission of EOI	IIT Mandi iHub and HCl Foundation, North Campus Near Mind Tree School Salgi, Mandi Himachal Pradesh 175005
No. of covers (two bid system)	02
Bid validity	90 days from the last date of submission of bids
Contact details Mobile E-mail Id	Mansi Pathania 8988563800 Mansi@ihubiiitmandi.in
Location	IIT Mandi iHub and HCl Foundation.

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Technology Innovation Hub (TIH) in Human-Computer Interaction (HCI)

Regd. Office: Indian Institute of Technology Mandi, VPO Kamand, Mandi, Himachal Pradesh, India – 175075

Note: The applicants are requested to read the EOI document carefully and ensure compliance with all instructions herein. Non-compliance with instructions in the document may disqualify the applicants.

General Manager

Signature & Stamp of Bidder:

Date:

Signature & Stamp of Bidder:

Date:

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Background:

1. IIT Mandi iHub and HCl Foundation is a Technology Innovation Hub (TIH of IIT Mandi). It is focused on Human-Computer Interaction (HCl). It is set up by the Indian Institute of Technology (IIT) Mandi under India's National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS). The vision of IIT Mandi iHub and HCl Foundation is to be an internationally recognised Hub that nurtures HCl research and enables technology translation for industry and skill development.
2. IIT Mandi iHub and HCl Foundation is operating from IIT Mandi, North campus, located in Mandi, Himachal Pradesh, 175005.
3. IIT Mandi iHub and HCl Foundation invite potential partners to submit **Expression of interest (EOI) for a Skill development training program**. We are seeking budgetary proposals from partners who can deliver effective and innovative skill development training.

Requirements of IIT Mandi iHub and HCl Foundation:

1. **Location:** Pan India.
2. **Skill Courses:** The training programs should focus on the following domains:
 - Gen AI for Creatives & Content Creators
 - Gen AI for Business Innovation
 - Fundamentals of Virtual Production for Filmmaking
 - Data Storytelling with AI
 - Building Interactive Worlds with No-Code AR/VR
 - AR/VR Experience Design & Prototyping
 - AWS re/Start: Cloud Skills & Career Development
 - IoT Application Development for Smart City
3. **Course Duration:** Minimum 100 hours to 120 hours
4. **Number of students:** The target is to train a minimum of 2000 students pan India from September to March 2026.
 - The enrollment for the last batch is acceptable until **March 15, 2026**.
 - Enrollment after March 15, 2026, will be subject to approval by iHub.
 - The number of students can be increased based on the training capacity of the partner, with prior approval from iHub.
5. **Student composition:**
 - At least **50% of the students** must be from the Scheduled Castes (SC) category or Scheduled Tribe(ST) category. The final ratio of SC/ST will be approved by the iHub during award of contract.
 - The remaining students can be from the general category/Other Categories.
6. **Fee Structure:**
 - **SC/ST Students:** No fees
 - **General Category/Other Categories Students:**
 - Fee structure to be mutually agreed upon and collected in advance.
 - Fees collected from general category/Other Categories students must be transferred to iHub's designated bank account at intervals defined by iHub.

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7. **Placement:** The partner should make every effort to place at least 50% of certified students within 120 days of certification.
8. **Reporting:**
 - Partner should provide reports in formats and intervals stipulated by iHub from time to time.
 - The partner should retain all documents pertaining to the project for 12 months after the project closure.
9. **Qualified Trainers:** Trainers must meet the minimum qualifications, as applicable. iHub will interview and approve the trainers.
10. **Minimum Age of Students:** 18 years
11. **Classrooms:**
 - Adequate, fully furnished classrooms equipped with tables, chairs, and basic teaching equipment (such as whiteboards, projectors, or screens).
 - Each room should comfortably accommodate at least **30 participants**.
12. **Labs:** Ensure these labs are equipped with the necessary technology, equipment, and safety features.
13. **Faculty Requirements:**
 - Qualified and experienced faculty for teaching for all mentioned courses are mandatory.
14. **Supporting Infrastructure:** The facility should include restrooms, a lounge or break area for staff and trainees, and secure storage for equipment.
15. **Payment from iHub to Partner:** Partners must submit their quotes as per the format in **Annexure-III**.
16. **Payment Terms:**
 - 30% on enrollment.
 - 30% on 80% completion of the session plan.
 - 30% on certification.
 - 10% retention amount, to be paid upon full documentation and batch closure.

Evaluation Process: Proposals will be evaluated based on:

1. Training capacity and infrastructure.
2. Financial feasibility and transparency.
3. Experience in conducting similar training programs.

Terms & conditions:

1. IIT Mandi iHub reserves the right to verify the infrastructure and facilities of the partner before awarding the contract.
2. Payment terms are as follows:
 - 30% on enrollment.
 - 30% on 80% completion of the session plan.
 - 30% on certification.
 - 10% retention amount, to be paid upon full documentation and batch closure.
3. The partner must provide detailed reports on training completion and certification for each student.

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4. The decision of IIT Mandi iHub and HCl Foundation will be final in case of any dispute arising in the implementation of the terms of the contract.
5. The timeline to onboard a partner is one year. However, the engagement may be extended on a year-to-year basis, based on need and mutual agreement.
6. If the partner fails to provide the agreed services or does not meet the required standards, IIT Mandi iHub reserves the right to terminate the contract with one-month prior notice.
7. A penalty of up to 10% of the total contract value may be imposed for non-performance, delays, or failure to meet training quality standards.
8. Persistent non-compliance or failure to rectify issues within the notice period will result in immediate termination of the contract.

Preparation and submission of application

The applicants are advised to go through the EOI documents in detail and understand the requirement and terms & conditions specified therein before submitting the tender.

Both the bids (**Technical and Financial**) duly signed by the authorised signatory should be submitted in two separate sealed envelopes as described below:

Envelope 1: Containing technical bid in **Annexure-I** duly completed in all respects along with all relevant documents, duly signed and stamped by authorised signatory on each page of technical bid and relevant documents and should be super-scribed in bold letters with the statements: “**Technical bid for Skill development training partnership**”.

Envelope 2: Containing the financial bid, as prescribed in the **Annexure-III** and should be super-scribed in bold letters with the statements: “**Financial for Skill development training program**”. Finally, the above-mentioned envelopes should be kept in a single sealed cover/envelop super-scribed in bold letters with the statements – “**Application for Skill development training partnership**” and to be submitted at:

General Manager

IIT Mandi iHub and HCl Foundation
North Campus IIT Mandi
Salgi, Mandi
Himachal Pradesh
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Following documents to be submitted along with the technical bid:

1. Letter for acceptance of terms & conditions of EOI document as per **Annexure-II**.
2. The technical bid should be accompanied by a copy of this EOI document with each page duly signed by the authorized signatory of the applicants, who has signed the application, as token of having read, understood and complied with EOI, the terms & conditions contained herein. Applications not accompanied by a duly signed copy of the EOI document will not be considered.
3. All the requisite information should be filled up in prescribed form and the filled-up application form, relevant information and required document should be clearly readable and all the pages of the document should be signed by authorized signatory.
4. Applications must reach on or before the closing time and date as indicated in the beginning of this document. Any application received after closing date/time shall not be considered. Applications received by **REGISTERED POST/SPEED POST/COURIER** are accepted. Applications received by any other mode like **FAX/E-MAIL etc.** will not be accepted. The IIT Mandi iHub and HCl Foundation will not be responsible for any postal delay.
5. The IIT Mandi iHub and HCl Foundation shall not be responsible for misplacement, loosing or premature opening of the outer envelope if not sealed and/or marked as stipulated. This may be the reason for rejection of the bid. If the financial proposal is not submitted in a separate sealed envelope duly marked as indicated above, this will constitute grounds for declaring the proposal non- responsive.
6. **Bid validity:** The bid shall remain valid for a period of **90 days** from the last date of submission of proposal. In case the applicant withdraws, modifies or changes his offer during the validity period, application is liable to be rejected without assigning any reason thereof and the applicant may be barred for 3 years to participate against any tender / EOI / RFQ of IIT Mandi iHub and HCl Foundation.
7. Any changes / corrigendum/extension of closing/ opening dates in respect of this EOI shall be issued through IIT Mandi iHub and HCl Foundation **website only** and no **press notification will be issued in this regard. Applicants are therefore requested to regularly visit IIT Mandi iHub and HCl Foundation website for updates.**
8. The applicant shall bear all costs associated with the preparation and submission of the application and IIT Mandi iHub and HCl Foundation will in no case be held responsible or liable for these costs, regardless of the conduct or outcome of this submission of application process.
9. The IIT Mandi iHub and HCl Foundation reserves the right to consider/reject any such proposal without assigning any reason. In case of rejection of application, the decision of competent authority will be final, and binding and the party shall not be entitled to any compensation whatsoever for non-issue of work.

Application opening and evaluation

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1. The applications would be evaluated based on the rates quoted and capacity to train students by the service provider for the courses .
2. IIT Mandi iHub and HCl Foundation shall be under no obligation to accept the lowest quotation. However, the service should provide satisfying facilities /conveniences / utilities stated in the EOI documents may be considered in the interest of the organisation.
3. Non-fulfilment of any of the above terms shall result in rejection of the application.
4. IIT Mandi iHub and HCl Foundation reserves the right to visit a particular or all locations and reserves full right to choose any location and premises as suitable and may negotiate the rates as applicable.

Annexure- I Technical bid

Dated: Oct 15, 2025

EOI Ref No: iHub/EOI/2025-2026/05

1. General Details of service provider/agencies:

Sr.No.	Requisite information	Firms' response
01	Name of the service provider/agencies	
02	Full address of the service provider/agencies Telephone /Mobile No. E-mail ID.	
03	Registration of firm.	
04	CIN. PAN. GST certificate (if any).	
05	Prior Experience in executing skill development projects for government initiatives, of value exceeding INR 50 Lakhs. (mandatary)	
06	Prior Experience in skill development projects aimed at marginalized communities, of value exceeding INR 50 Lakhs.	
07	Infrastructure details (classrooms, labs etc.).	
08	Qualifications and experience of Instructor.	
11	Whether agrees to abide by the terms & conditions of the EOI document? In the event of the award of the contract?	
13	Bank details	Beneficiary name: Account no: Bank name: Branch: IFSC code: MICR no: Type of account: (Saving/Current)
13	Payment terms agreed as specified in EOI documents.	

2. Proposed Course Curriculum & Delivery Plan: This is subject to revision from time to time based on market demands. The Partner can suggest modifications to the curriculum in line with market demand. The Partner is required to develop the course content based on this curriculum.

Please fill in the required information for each course you are bidding on.

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2.1. Course-Specific Details

(Please copy and paste this section for each course you are proposing to offer.)

- **Course Title:** [e.g., Digital Marketing Fundamentals]
- **Total Course Duration:** [Proposed Total Hours]
- **Target Audience:** [e.g., High School Graduates, Unemployed Youth, Working Professionals]
- **Delivery Method:** [e.g., Online, Offline (classroom-based), Blended (specify mix)]
- **Certification Offered:** [e.g., Industry-recognized certification, Course Completion Certificate, etc.]

2.2. Detailed Curriculum Breakdown

Note: Vendors have the flexibility to modify chapters and their proposed hours. Please specify the proposed hours for each chapter below.

Course 1: GenAI for Creatives & Content Creator

Chapter/Module Name	Chapter Details	Proposed Hours
Evolution of AI in Creativity & Prompt Engineering	Study the history and development of AI tools in creative industries; Understand prompt engineering techniques to guide AI responses; Explore ethical considerations such as data bias and copyright; Review case studies of AI-assisted creative projects; Practice prompt-writing exercises across different use cases	[Proposed Hours]
AI in Visual Arts & Branding	Explore MidJourney and RunwayML for creating digital art and brand assets; Understand layout, typography, and color theory principles enhanced by AI; Practice generating branding materials such as logos and posters; Learn how to refine AI-generated images based on feedback; Study visual communication strategies	[Proposed Hours]
AI in Writing & Storytelling	Learn how to write compelling scripts and narratives using AI tools; Practice structured storytelling and dialogue generation; Explore creative constraints to refine outputs; Write marketing content and copy with AI suggestions; Review peer drafts and improve clarity and engagement	[Proposed Hours]
AI in Music & Multimedia	Learn how AI tools like AIVA and Soundraw assist in composing soundtracks; Explore rhythm, melody, and	[Proposed Hours]

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	soundscapes for multimedia projects; Integrate music with visual storytelling for immersive experiences; Understand copyright and licensing considerations for AI-generated audio; Practice creating mood-based soundtracks	
Capstone: Multi-Modal Creative Integration	Develop a project that integrates text, images, and sound into a cohesive narrative; Practice project management and collaborative workflows; Review storytelling structures suitable for multimedia formats; Present and critique final projects; Prepare documentation for creative projects	[Proposed Hours]
Ethics & Reflection in AI Creativity	Explore ethical issues around AI content generation and usage rights; Learn how to evaluate AI outputs for accuracy and fairness; Practice peer feedback and collaborative improvement; Reflect on personal creative growth and challenges; Create self-assessment reports	[Proposed Hours]

Course 2: Gen AI for Business Innovation

Chapter/Module Name	Chapter Details	Proposed Hours
Generative AI in Business & Case Studies	Explore AI's transformative role in different industries; Analyze case studies of AI-driven startups and enterprises; Identify AI tools that enhance productivity and decision-making; Discuss ethical business practices with AI; Learn to outline AI-driven solutions	[Proposed Hours]
AI in Market Research	Conduct competitor analysis using AI tools; Explore customer segmentation techniques; Learn sentiment analysis and consumer trend predictions; Practice building survey frameworks; Review privacy laws and data governance	[Proposed Hours]
Financial Modeling with AI	Develop pricing strategies using AI forecasting; Build sales and cost models; Explore financial planning and budgeting with AI; Practice scenario analysis and risk assessment;	[Proposed Hours]

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	Review case examples of AI in finance	
AI-driven Product Innovation	Brainstorm product ideas using AI-supported tools; Learn to design wireframes and prototypes; Integrate customer feedback into product planning; Explore MVP development strategies; Create user experience narratives	[Proposed Hours]
Capstone: Business Pitch Deck Development	Structure pitch decks for investor presentations; Create engaging narratives and data visualizations; Practice communication techniques for stakeholder buy-in; Review competitor presentations and refine content; Present business models to mentors	[Proposed Hours]
Reflections and Presentation Skills	Practice storytelling techniques for business communication; Learn to handle investor questions and objections; Explore ethical considerations in AI-supported business models; Prepare personal reflections on learning journeys; Develop documentation and reporting strategies	[Proposed Hours]

Course 3: Fundamentals of Virtual Production for Filmmaking

Chapter/Module Name	Chapter Details	Proposed Hours
Introduction to Virtual Production	Study the evolution of virtual production techniques; Explore key workflows and tools used in modern filmmaking; Learn how virtual sets enhance creative storytelling; Identify hardware and software requirements; Discuss ethical and legal considerations in content creation	[Proposed Hours]
Real-Time Rendering with Unreal Engine	Learn to build 3D environments and apply textures; Explore camera movement, lighting, and depth perception; Practice real-time scene adjustments for storytelling; Review troubleshooting methods in rendering; Experiment with different scene compositions	[Proposed Hours]
Virtual Sets & Compositing	Setup green screens for immersive filming; Practice chroma keying and scene layering; Blend virtual	[Proposed Hours]

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	backgrounds with live-action footage; Learn editing techniques for seamless integration; Explore lighting corrections and color grading	
Character Mocap & Integration	Capture motion; Sync character movements and dialogue; Integrate real and virtual elements using compositing tools; Explore post-processing workflows; Review motion capture errors and fixes	[Proposed Hours]
Filmmaking Pipeline	Learn end-to-end project management from scripting to final edit; Explore budgeting, scheduling, and collaboration methods; Practice editing and post-production techniques; Study distribution channels and audience engagement; Review legal aspects like licensing and permissions	[Proposed Hours]
Capstone: Produce a 3–5 min Short Film	Apply learned techniques to produce a film; Work in teams to assign roles and coordinate production; Use real-time tools for editing and scene development; Conduct peer reviews and presentations; Document creative and technical workflows	[Proposed Hours]

Course 4: Data Storytelling with AI

Chapter/Module Name	Chapter Details	Proposed Hours
Data Visualization Basics	Understand chart types, layouts, and best practices; Explore color schemes and readability factors; Learn how to align data presentations with audience needs; Study case examples of effective storytelling; Practice designing mock infographics	[Proposed Hours]
AI Tools for Data Analysis	Explore tools like Tableau, Power BI, and ChatGPT for automated insights; Learn to clean and structure datasets for analysis; Perform sentiment and trend analysis using AI; Generate textual summaries from data; Explore limitations and ethical considerations in AI	[Proposed Hours]

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	analysis	
Predictive Storytelling & Trend Identification	Study forecasting methods for data-driven storytelling; Explore anomaly detection and pattern recognition; Understand statistical modeling basics; Practice presenting data forecasts visually; Learn how to build actionable insights from trends	[Proposed Hours]
Storyboarding Narratives	Learn how to structure reports and presentations; Explore narrative arcs that enhance data storytelling; Practice mapping datasets into coherent storylines; Identify audience personas and tailor communication; Collaborate on feedback-driven storyboarding exercises	[Proposed Hours]
Reports & Presentations	Learn report formatting for professional and academic contexts; Practice designing slide decks and dashboards; Explore engagement techniques to communicate data findings; Review case examples from industry; Discuss ethical and transparent data reporting	[Proposed Hours]
Capstone: Storytelling with Real Datasets	Apply skills to analyze and interpret real-world datasets; Create comprehensive reports and presentations; Engage in peer reviews and feedback sessions; Prepare final presentations for expert panels; Document analysis methods and lessons learned	[Proposed Hours]

Course 5: AR/VR Experience Design & Prototyping

Chapter/Module Name	Chapter Details	Proposed Hours
Unity Fundamentals & Asset Management	Introduction to Unity: interface, workflow, project setup; Project & Asset Management: importing assets, Unity Asset Store, folder organization; Materials in Unity: shaders, PBR workflow, material creation; Working with Textures: mapping, tiling, normal maps	[Proposed Hours]
Lighting, Environments &	Working with Lights: types, baking, lightmaps, shadows; Environments & Cameras: skybox, fog, post-processing	[Proposed Hours]

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Animation	stack; Animation Workflow: animator, animation clips, importing animations	
Character Design & Physics	Character Import & Control: rigged characters, controller setup; Physics Workflow: colliders, rigidbodies, forces, triggers; Developing Character Controller: input handling, movement scripts (jump, crouch)	[Proposed Hours]
UI & Game Interaction	Working with UI: canvas, buttons, text, sliders; Dynamic UI Components: health bars, score counters, inventory UI; Creating Main Menu & HUD: selection menu, HUD integration	[Proposed Hours]
Publishing & Capstone Project	Publishing Workflow: build settings, platform selection, optimization; Capstone Project: design & prototype a mini 3D game / AR-VR experience combining all skills	[Proposed Hours]

Course 6: AWS re/Start: Cloud Skills & Career Development

Chapter/Module Name	Chapter Details	Proposed Hours
Introduction to Cloud Computing and AWS	Overview of cloud computing and AWS ecosystem; Key concepts: Virtualization, scalability, pay-as-you-go pricing; Introduction to tools: AWS Management Console, AWS CLI (free), Python (open-source); Hands-on: Set up an AWS Free Tier account and explore the AWS Console; Professional skills: Effective communication basics	[Proposed Hours]
AWS Core Services – Compute and Storage	AWS services: EC2, S3, Lambda; Basics of compute (virtual machines) and storage (buckets, objects); Hands-on: Launch an EC2 instance and create an S3 bucket for file storage; Group activity: Design a simple cloud architecture for a web app; Professional skills: Time management and teamwork	[Proposed Hours]
Networking and Security in AWS	AWS networking: VPC, subnets, security groups; Security concepts: IAM, encryption, best practices; Hands-on: Configure a VPC with public/private subnets and set up	[Proposed Hours]

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	IAM roles; Group activity: Simulate a secure cloud network setup; Professional skills: Resume building workshop	
Databases and Analytics on AWS	AWS database services: RDS, DynamoDB; Basics of data analytics: Amazon Redshift, QuickSight; Hands-on: Create a DynamoDB table and visualize data with QuickSight; Group activity: Analyze a sample dataset using AWS analytics tools; Professional skills: Interview techniques and mock interviews	[Proposed Hours]
Automation and Infrastructure as Code	Introduction to automation: AWS CloudFormation, Lambda; Basics of scripting with Python and AWS SDK (Boto3); Hands-on: Deploy a stack using CloudFormation and automate tasks with Lambda; Group activity: Script a simple automation task (e.g., resource cleanup); Professional skills: Adaptive communication for technical interviews	[Proposed Hours]
Advanced AWS Services and Monitoring	Advanced services: ECS, EKS, CloudWatch; Monitoring and logging: CloudWatch metrics, alarms; Hands-on: Set up a containerized app with ECS and monitor with CloudWatch; Group activity: Design a monitoring dashboard for a cloud application; Professional skills: LinkedIn profile optimization	[Proposed Hours]
Capstone Project – Phase 1	Project planning: Design an AWS-based application (e.g., e-commerce platform); Select services: EC2, S3, RDS, Lambda, CloudWatch; Hands-on: Build the initial infrastructure (compute, storage, database); Group activity: Collaborate on project architecture and roles; Professional skills: Presentation skills for stakeholders	[Proposed Hours]
Capstone Project – Phase 2	Enhance project: Add automation (CloudFormation), security (IAM), and monitoring (CloudWatch); Optimize for performance and cost efficiency; Hands-on: Deploy and test the complete application; Group activity: Troubleshoot and refine the project; Professional skills: Mock technical interviews and feedback	[Proposed Hours]

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<p>Certification Prep and Career Transition</p>	<p>AWS Certified Cloud Practitioner exam prep: Review Cloud Concepts, Security, Technology, Billing; Practice exams and exam strategies; Hands-on: Final project refinements and documentation; Career prep: Final resume review, job application strategies, employer networking; Presentation: Showcase capstone project to peers and instructors</p>	<p>[Proposed Hours]</p>
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Course 7: Building Interactive Worlds with No-Code AR/VR

Chapter/Module Name	Chapter Details	Proposed Hours
<p>Unreal Engine Foundations</p>	<p>Introduction to Unreal: editor interface, workflow, project setup; Working with Level Editor: placing actors, level organization, editing tools; Asset Workflow: importing 3D models, textures, materials; Learning Outcome: Students understand Unreal interface and can set up/manage assets for projects</p>	<p>[Proposed Hours]</p>
<p>Actors, Materials & Textures</p>	<p>Working with Actors: actor classes, blueprints, transformations; Materials in Unreal: PBR workflow, material editor, shaders; Working with Textures: mapping, UVs, normal maps</p>	<p>[Proposed Hours]</p>
<p>Lighting, Environments & Terrain</p>	<p>Lights: types of lights, baking, shadows; Environments: fog, skybox, landscape design; Terrain & Vegetation: sculpting, foliage, grass tools</p>	<p>[Proposed Hours]</p>
<p>Visual Effects & Blueprints</p>	<p>Post-Processing: color grading, bloom, depth of field; Introduction to Blueprints: variables, events, no-code scripting; Camera Control: types, cinematic switching; Input Controller: keyboard/mouse/gamepad mapping</p>	<p>[Proposed Hours]</p>
<p>Playable Character & Capstone Project</p>	<p>Playable Character: rigging, animation, controller setup; Working with HUD: UMG, health bars, score counters; Publishing Workflow: build settings, packaging for PC & mobile; Capstone Project: Combine all elements into a</p>	<p>[Proposed Hours]</p>

Workplace: IIT Mandi iHub and HCl Foundation Office, North Campus, IIT Mandi, VPO Kamand, District Mandi, Himachal Pradesh - 175075

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	mini interactive AR/VR world/game	
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Course 8: IoT Application Development for Smart City

Chapter/Module Name	Chapter Details	Proposed Hours
Introduction to Smart City IoT Concepts	Learn how IoT concepts can be applied to solve real-life Smart City challenges. Gain hands-on exposure through applied learning and execution platforms while developing skills such as problem solving, critical thinking, and innovation. Explore solutions including: Smart Parking, Smart Train Coach, Smart Waste Management, Road Safety & Energy Saving, Pollution Control & Air Quality Monitoring, Gas Leak Alert & Monitoring, Grain Distribution & Structural Bridge Monitoring, Energy Monitoring & Management.	[Proposed Hours]
Communication Protocols for Smart City IoT	Develop expertise in selecting and applying communication protocols tailored to Smart City applications. Understand trade-offs in scalability, reliability, and compatibility with existing infrastructure. Learn about MQTT, CoAP, and LoRaWAN for seamless connectivity and data exchange.	[Proposed Hours]
Cloud & Data Management for Smart Cities	Gain proficiency in using Cloud-based IoT services with MQTT support for efficient data processing, storage, and analytics. Learn to design systems that deliver actionable insights to enhance decision-making in Smart City operations.	[Proposed Hours]
Engineering Industry-Specific IoT Solutions	Apply IoT technologies to engineer domain-specific solutions for Smart City challenges. Focus on optimizing infrastructure, improving public services, and enhancing quality of life. Work on use cases including transportation, waste management, energy, and industrial safety.	[Proposed Hours]
Troubleshooting & System Reliability	Strengthen analytical and troubleshooting skills for identifying and resolving technical issues in Smart City IoT deployments. Learn to ensure security, reliability, and performance in large-scale, dynamic environments.	[Proposed Hours]
User Interfaces &	Learn to design and deploy web and mobile interfaces for	[Proposed

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Remote Management	IoT solutions. Practice building dashboards and control panels to empower stakeholders with real-time monitoring, control, and resource optimization.	Hours]
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3. Assessment and Practical Training Plan:

- **Assessment Plan:** Describe your continuous and end-of-course assessment strategy.
 - [Your detailed response]
- **Practical & Hands-on Training:** Explain the practical component of the course. How will students get hands-on experience?
 - [Your detailed response]
- **Expert Sessions & Invited Speakers:** If you plan to include guest lectures, please provide details of the proposed speakers, their expertise, and the topics they will cover.
 - [Your detailed response]

This is to certify that all the information stated above is true and correct to the best of my/our knowledge. I/We understand and accept the terms & conditions and further accept that if there is any suppression, fabrication and misstatement of facts in any form, will at once result in cancellation of my application and IIT Mandi iHub and HCl Foundation that reserves its rights to take such action as it may deem fit in such an eventuality.

(Signature of the authorized signatory)

Name of Signatory:

Date:

Name of the Service provider/Agencies:

Place:

Annexure-II Letter for acceptance of terms & conditions

To
General Manager,
IIT Mandi iHub and HCl Foundation
North campus, IIT Mandi,
Mandi, Himachal Pradesh
175005

Date:

Sub: Acceptance of terms & conditions of Expression of interest [EOI] for a Skill development training program.

Dear Sir/Ma'am,

I / We have downloaded / obtained the EOI document(s) for the above mentioned "EOI from the web site namely as per your notice given in the above-mentioned website.

1. I / We hereby certify that I / we have read the entire terms & conditions of the EOI documents (including all documents like annexure(s), schedule(s), etc.), which form part of the contract, and I / we shall abide hereby by the terms / conditions / clauses contained therein.
2. I / We hereby unconditionally accept the EOI conditions of above mentioned EOI document(s) / corrigendum(s) in its totality / entirely.
3. No employee or direct relation of any employee of IIT Mandi iHub and HCl Foundation is in any way connected as partner / shareholder / director / advisor / consultant / employee etc. with the agency / firm / company.
4. I / We certify that all information and data furnished, and attachments submitted with the application by our agency / firm / company are true & correct.
5. I / We are aware that if any information is found to be incorrect / untrue or found violated, then your department / organization shall without giving any notice or reason thereof summarily reject our bid or terminate our contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit / performance security absolutely.

Yours Faithfully,
(Signature of the applicant, with official seal)

Signature & Stamp of Bidder:
Date:

Regd. Office: Indian Institute of Technology Mandi, VPO Kamand, Mandi, Himachal Pradesh, India – 175075

Annexure-III Financial bid

Dated: Oct 15, 2025

EOI Ref No: iHub//EOI/2025-2026/05

Subject	Training fee (inclusive of Taxes) :Per student	Total no. of students	Total amount (Inclusive of Taxes)
Gen AI for Creatives & Content Creators			
Gen AI for Business Innovation			
Fundamentals of Virtual Production for Filmmaking			
Data Storytelling with AI			
Building Interactive Worlds with No-Code AR/VR			
AR/VR Experience Design & Prototyping			
AWS re/Start: Cloud Skills & Career Development			
IoT Application Development for Smart City			
Total			

(Signature of the authorized signatory)

Name of signatory:

Date:

Name of the service provider(s)/agencies:

Place:

Signature & Stamp of Bidder:

Date:

Workplace: IIT Mandi iHub and HCl Foundation Office, North Campus, IIT Mandi, VPO Kamand, District Mandi, Himachal Pradesh - 175075

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Annexure-IV

Dated: Oct 15, 2025

EOI Ref No: iHub//EOI/2025-2026/05

S.No.	Name of the bidder	Name and number of documents submitted	Remarks

Signature & Stamp of Bidder:
Date: