

iHub Drishti Foundation, Indian Institute of Technology, Jodhpur (iHub Drishti) is a Section-8, Not-for-profit Company, promoted by and at the Indian Institute of Technology Jodhpur under a National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS) of the Government of India. iHub Drishti is a Technology Innovation Hub focussed around “Computer Vision, Augmented Reality and Virtual Reality”.

iHub Drishti Foundation, IIT Jodhpur invite applications from Indian Nationals for filling up the following temporary position in the Project titled:

“HuB for Radiogenomics Research and Service”

Project Brief:

This project aims to create a searchable patient data portal. Data repository will contain various different types of patient data. The data will be accessed from a collaborative network of treating doctors/ workers, healthcare companies. Research will be carried out on novel AI and machine learning models to predict disease diagnosis and prognosis.

Position: Project Scientist I/II/III (The position is purely temporary on contractual basis)

No. of positions: 01

Job Description:

Proven expertise in medical image analysis demonstrated through relevant publications. Research on different clinical problems. In particular the individual is expected to develop novel AI algorithms trained on medical images. The person is expected to possess a strong background in image analysis with a proven track record evidenced through high quality publications. He/she needs to have exceptional implementation and programming skills. Ability to work in a multi-disciplinary environment while creating a niche for your expertise. Problem solving and working in a collaborative manner. Thrive in a culture of mutual support, continuous learning and self-organization to meet project goals.

The Project Scientist will be required to do the following:

- Design and development of *robust, efficient and real-time* algorithms for Analysis and Classification of Medical Images from Image Processing, Pattern Recognition, Computer Vision and Machine Learning.
- Development of *innovative* solutions for various problems related to Segmentation, Detection, classification and quantification of images for applications in Digital Pathology.
- Design of *efficient* models in Machine Learning / Deep Learning for *accurate* analysis and classification of High resolution Images.



- To learn and update oneself on the emerging trends of technology and apply them in the projects for better results leading to publications and patents.
- Explore new areas of Expert Systems, Cognitive Computing, and Trustable Artificial Intelligence.
- Collection of patient data from various hospitals and clinics across India.
- Monitor all ethical approval and legal requirements.
- Data storage, data extraction from various file formats, data organization.
- Ability to quickly develop a prototype while thinking about future capabilities and modularity of developed software components.
- Detail oriented and able to develop and push a single solution to completion.
- Producing specifications and determine operational feasibility.
- Work across teams to provide the support during the entire development process of the project.
- Prepare a training manual that can be used by application users.
- Analytical thinker with the ability to get to the roots of a problem.
- Interested in Development and Rapid Prototyping efforts.

Qualifications, Knowledge and Expertise

Essential:

- PhD in Computer science/Electrical engineering or related degree with expertise in medical image visualization and processing.
- Extensive experience with design and development of image analysis solutions
- Should have excellent analytical skills
- Should have experience creating, maintaining and handling databases
- Hands-on experience on multi-core CPU, GPU

Desirable:

- Knowledge of Image Processing, Pattern Recognition, Computer Vision, Machine Learning, Deep Learning
- Working experience in statistical techniques, text analytics/NLP, and reporting tools.
- Strong programming knowledge in any of C, C++, Python, JAVA etc.
- Hands-on experience in using Deep Learning frameworks and libraries
- Pattern design and experience with cloud-based infrastructure like AWS

Salary: Commensurate to experience

Job Location: Based in Jodhpur with some travel to various locations in India.

Application Deadline: Applications will be accepted until the position is filled



Information regarding the application process:

Applications will be accepted via (<https://tinyurl.com/ihubdrishtiProjectrec8>). Interested candidates may apply by **Uploading their updated Curriculum vitae covering educational and professional qualifications in the relevant field along with wet lab skill set, publications (if any), and contact information of two academic referees, work experience, last salary drawn, contact details, and references with necessary documentary evidences annexure. (PDF FORMAT)**

- (1) Applicants are advised to ensure, before applying, that they possess at least the minimum essential qualification and experience laid down for the post.
- (2) Eligibility of a candidate and satisfaction of any other short-listing criteria shall be considered as on the last date of the submission of the online application.
- (3) In case of exceptional candidates, the iHub Drishti foundation reserves the right to relax qualifications and/or experience.
- (4) *Shortlisted candidates shall be called for the further recruitment process.*
- (5) iHub Drishti Foundation reserves the right to fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason.
- (6) **No hard copy application is to be submitted. No email application is to be submitted.**
- (7) No TA/DA shall be paid to the candidates for attending the interview.
- (8) No correspondence will be entertained from the candidates in connection with the process of selection/interview.
- (9) Canvassing in any form will be a disqualification. Application which is incomplete, not in prescribed format, will be summarily rejected.
- (10) Application with insufficient information or without relevant supporting documents will not be considered for further processing. Applications without self-attested supporting documents will be summarily rejected.
- (11) Persons employed in Government/ Quasi-Government organizations should submit their applications through proper channels.
- (12) Specific queries, if any, may be directed to the e-mail: hr@ihub-drishti.ai.
- (13) iHub Drishti foundation may verify the antecedents or documents submitted by a person at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents or background and has suppressed the said information, then his or her services shall be terminated.
- (14) Any dispute with regards to the selection/recruitment will be subject to Courts / Tribunals having jurisdiction at Jodhpur.