



# JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH (JIPMER)

Dhanwantri Nagar, Puducherry-6

## RESEARCH MANPOWER RECRUITMENT FORMS

### REC-02: Advertisement Format

Advt. No. JIP/OG/Gyn Onco/Optical probe/cervical cancer/01

Date: 14-06-2024

### Advertisement for Recruitment to Project Posts (on Contract)

Applications are invited from eligible candidates to work on the following post(s) on a contract basis in a research project funded by an external agency at the Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry, as per the details below.

Name of post (number)	Junior Research Fellow (JFR)- 01
Likely duration	<b>ONE YEAR</b> and the extension may be granted up to THREE YEARS based on the performance with effect from the date of joining.
Consolidated remuneration	Rs. 37,000/- per month plus 18% HRA (Rs. 5,040/-)= Rs. 43,660/- per month
Project title	"Development of bi-modal transvaginal probe and evaluation of its diagnostic accuracy for a non-invasive AI-based detection of preinvasive cervical lesion in comparison to standard colposcopy in screen positive patients"
Funding Agency	SERB CRG
Project investigator (PI)	Dr Arpitha A
PI's department	Obstetrics and Gynecology (Gynecological oncology subspecialty)

### Nature of work/responsibilities and expectations

- Image processing and analysis using the computer vision libraries such as OpenCV and scikit-image of Python.
- Building computer vision models for image classification, object detection, segmentation, and image generation.
- Application of artificial intelligence and machine learning algorithms for performing image processing and identification of suspicious region.
- Performing biostatistics analysis and inferences (like PCA, AUC, and others) from the data gathered through images.
- Writing manuscripts for publications in reputed Journals and Conferences.

### Eligibility criteria (Qualifications and experience)

#### A. Essential:

- Post Graduate Degree in Basic Science OR Graduate / Post Graduate Degree in Professional Course selected through a process described through any one of the following:
  1. Scholars who are selected through National Eligibility Tests - CSIR-UGC NET, including lectureship (Assistant Professorship) and GATE.
  2. The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, and MoE. ICAR, ICMR, IIT, IISc, USER, NISER etc.



## JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH (JIPMER)

Dhanwantri Nagar, Puducherry-6

### RESEARCH MANPOWER RECRUITMENT FORMS

#### B. Desirable:

- Experience in clinical research, clinical analysis, and biostatistics.
- Image processing and analysis using computer vision libraries such as OpenCV and scikit-image of Python.
- Well versed in building computer vision models for image classification, object detection, segmentation, and image generation.
- Well-versed in developing Machine learning/AI for image analysis, image segmentation, and classification
- Candidates with good publication record in high-impact journals & conferences will be preferred.

#### C. Maximum Age Limit: 28 years (as on last date of receipt of applications)

However, can be relaxed for women candidates/OBC/SC/ST/physically handicapped (PH) candidates as per norms

Eligible and interested candidates may email the filled application form (attached), along with CV and supporting documents (scanned in one pdf) to the **Email ID: [projectrecruitment@jipmer.ac.in](mailto:projectrecruitment@jipmer.ac.in)**

#### Notes:

1. **Applications not in the prescribed format will not be processed or accepted.**
2. Please mention the name of the post applied for in the email subject line.
3. The PDF file should be named "**Candidate name\_Post-name\_year\_application**". e.g. "**James\_DEO\_2023\_application**".
4. **The last date for sending complete applications by email is 11 pm on 23<sup>rd</sup> June 2024.**
5. For those wishing to apply for two or more different posts, a separate application form must be filled in for each post and scanned and sent with the necessary enclosures in separate emails.

Applicants will be shortlisted based on the details furnished in the application, CV, and the documentary proof provided. The list of eligible candidates will also be displayed on the JIPMER website. The final selection will be based on CV, application, and written test/interview.

#### EVALUATION CRITERIA:

After the evaluation of the application form, the recruitment process will be as follows:

- a. **Written test** (areas which will be covered) approx. – Analytical, logical reasoning, image processing, python coding, machine learning/artificial intelligence, image classification & segmentation, object detection, biostatistics, clinical research and analysis.
- b. **Interview** (areas which will be covered) – Clinical image analysis, Image processing, machine learning/artificial intelligence, image classification, object detection, image segmentation, clinical research and analysis.



## JAWAHARLAL INSTITUTE OF POSTGRADUATE MEDICAL EDUCATION AND RESEARCH (JIPMER)

Dhanwantri Nagar, Puducherry-6

### RESEARCH MANPOWER RECRUITMENT FORMS

#### TERMS AND CONDITIONS:

1. This position is purely on contract basis for an externally sponsored project, and the person engaged will have no claim to any regular post in JIPMER at any time. Further, the position is only for the duration of the project and based purely on external funding support for the project.
2. The engagement may be extended or curtailed at discretion of the Project Investigator.
3. Qualification and experience should be in a relevant discipline/field and in a reputed institution/organization. The experience should have been gained *after acquiring the essential qualification*.
4. Qualification, experience, other terms, and conditions may be relaxed/ altered at the discretion of the Principal Investigator.
5. Valid email ID and mobile number are compulsory.
6. Consolidated salary of the post may vary from time to time. No other allowance/facilities other than consolidated salary shall be extended.
7. Submission of wrong or false information at any stage during the process of selection or canvassing of any kind will lead to disqualification or even termination if detected after the person has been engaged.
8. Only shortlisted candidates will be called for a written test and/or interview. Decision of the Project Investigator will be final. If the number of applications is very large, more stringent criteria than those specified above may be used to determine eligibility.
9. No TA/DA will be paid for attending the interview.
10. Incomplete applications and applications that are not in the prescribed format and those not fulfilling the essential criteria above are likely to be summarily rejected. Candidates may attach their CVs with the application form. *However, applications with CV alone and without the prescribed form and certificates will be rejected.*

Interviews for the post may be conducted in person or via videoconferencing, at the discretion of the Principal Investigator. In the latter case, it will be the individual candidate's responsibility to ensure access to a suitable device (computer/ laptop/ mobile) with audio and camera facilities, and an adequate internet connection.

Date and time of interview will be **27<sup>th</sup> of June 2024 at 8am, at Skill lab, first floor, WCH building, JIPMER, Puducherry.**