

### **Advertisement for the post of Research Consultant: Walk-in Interview**

**Name of Position:** Research Consultant

**Number of Position:** 01

**Nature of Job:** Temporary for 3 months

**Age-** Preferably below 35 Years

**Duration and Payment:** The duration of the service will be three months. The research consultant will be required to work in person on dedicated computer system at IIM Ranchi and the DRDO headquarters in New Delhi. **No remote/ online work mode will be allowed.** The payment for the deliverable will be made on a lump-sum amount, ₹1,00,000 (Rupees One lakh only) subject to satisfactory completion of the assigned work and deliverables.

**Selection Process:** The selection of the research consultant will be a walk-in interview. Interested candidates can walk in **any one** of the following venues on the stated date & time to attend the interview. Candidates should bring an **original Aadhar card** for entry. They should also carry original degree certificates, work experience certificates (if any).

Venue of the Walk in interview	Date of interview	Time of interview	Contact No (In case of any queries)
Indian Institute of Management, Ranchi, Prabandhan Nagar, Nayasarai Road, Jharkhand 834004	29.01.2026	From 11.00 am to 4.00 pm	8017033633
<b>OR</b>			
Directorate of Planning and coordination, DRDO Bhawan, Rajaji Marg, Vijay Chowk Area, Central Secretariat, New Delhi, Delhi 110011	30.01.2026	From 11.00 am to 4.00 pm <b>Candidates must bring their original Aadhar card for entry.</b>	7303497417

**Eligibility criteria:**

- Post Graduate/Masters (M.Tech/ M.Sc/MBA) or pursuing second year of masters
- Full proficiency in Python coding/C++/HTML/CSS/Java

**Desirable skills set:**

- i. A strong understanding of Object-Oriented Programming (OOP) concepts is required.
- ii. Knowledge of relevant frameworks Tkinter / PyQt / PySide /Kivy/JavaFX / Swing/.NET (WPF / WinForms)/ Electron/Qt
- iii. Experience or exposure to desktop or client-side application development
- iv. Familiarity with event-driven programming
- v. Understanding of form-based UI flows
- vi. Familiarity with Git or any version control system
- vii. Basic knowledge of building applications into builds or executables
- viii. Experience with charts, visual summaries, or analytics in reports
- ix. Awareness of UX best practices for form-heavy applications
- x. Exposure to SQLite or lightweight databases
- xi. Basic unit testing or test case writing
- xii. Ability to document code and application logic clearly
- xiii. Prior experience with survey, assessment, test, or questionnaire-based applications

## **Job Description:**

1. Application Design & Architecture
  - a. Design and develop a GUI-based desktop application with a smooth, intuitive user flow
  - b. Maintain a clean separation between UI, application logic, and data layers. Ensure clear separation of UI and business logic
2. Dynamic Forms & Questionnaire Management
  - a. Generate dynamic forms or questionnaires
  - b. Implement dynamic questionnaires with conditional logic and branching flows. Support multiple question types (text, multiple choice, scales, etc.)
  - c. Manage application state, user progress, and navigation
3. AI & Offline Capabilities
  - a. AI agents for offline applications using a local database
4. Data Storage & Handling
  - a. Use local data storage (files or lightweight databases)
  - b. Read and write structured data formats (JSON, CSV, XML, etc.)
  - c. Basic understanding of data validation and integrity
5. ERP Integration
  - a. Generate queries to fetch input data from the organization's ERP
  - b. Automatically feed input into the developed system from the ERP
  - c. Store user responses in the ERP in a structured format
  - d. Integrate the developed system into the organization-wide ERP system
6. Business Logic & Processing
  - a. Implement scoring, rules, and business logic based on responses
7. Reporting & Output Generation
  - a. Generate final reports programmatically (tables, summaries, and insights)
  - b. Experience generating reports programmatically (tables, summaries, exports)
  - c. Exposure to output formats such as:
    - i. PDF
    - ii. Excel / CSV
  - d. Familiarity with libraries or tools for report generation is an added advantage (e.g., Pandas, ReportLab, FPDF, Apache POI, iText, etc.)
8. Quality Assurance & Performance
  - a. Handle input validation, error cases, and edge conditions
  - b. Exception handling and debugging skills. Write stable, readable code.
  - c. Basic understanding of background or asynchronous processing
9. Deployment & Distribution
  - a. Package the application into a distributable installer/executable

## **Principal Investigator:**

Prof. Vijaya Dixit

Associate Professor

Indian Institute of Management Ranchi

<https://iimranchi.ac.in/faculty/vijaya-dixit/>

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