

# JOB DESCRIPTION

**Job Title:** Lab Instructor

**Location of Job:** Bahraich, UP

**No. of Positions:** 01

**Job type:** 1 year of consultant contract basis

**Department:** Programme

**Reporting to:** Manager-Programme

## **Position Overview:**

The STEM (Tinkering) Lab Expert will be responsible for facilitating STEM and innovation-based learning through hands-on activities, tools, and technologies in Tinkering Labs established across schools. The facilitator will deliver engaging learning sessions in Hindi and English, train students and teachers, maintain lab equipment, and foster creativity and problem-solving skills. The role involves frequent travel between schools and collaboration with various stakeholders including school staff, local authorities, and NGOs.

## **Key Responsibilities:**

### **A. Teaching & Facilitation**

- Conduct STEM-based workshops and classroom sessions in both Hindi and English.
- Guide students in using Tinkering Lab tools like Arduino, 3D printers, robotics kits, sensors, etc.
- Encourage design thinking, problem-solving, and innovation among children.
- Develop lesson plans aligned with STEM learning goals and NEP guidelines.

### **B. Lab Operations & Management**

- Maintain inventory, tools, and lab safety protocols.
- Set up and troubleshoot hardware and software required for lab activities.
- Prepare demonstration models and ensure lab readiness before sessions.

### **C. Training & Capacity Building**

- Train school teachers on how to integrate STEM learning in their curriculum.
- Build capacity of student peer leaders and science clubs.

### **D. Community & Stakeholder Engagement**

## JOB DESCRIPTION

- Work closely with school leadership, education departments, and community groups.
- Represent the lab during exhibitions, competitions, or public showcases.
- Establish strong networks with local stakeholders and industry partners to promote STEM.

### E. Documentation & Reporting

- Maintain records of attendance, activities conducted, student progress, etc.
- Prepare periodic reports, success stories, and feedback summaries.

### 3. Qualifications and Experience:

- Education: Bachelor's degree in Science/Engineering/Technology/Education or relevant discipline.
- Experience: Minimum 2 years of experience in facilitating STEM/Tinkering Labs or educational programs.
- Experience working with children (preferably grades 6–12) in schools or informal settings.
- Strong knowledge of tools used in Atal Tinkering Labs (ATLs) or similar innovation labs is desirable.

### 4. Skills and Competencies:

- Bilingual fluency: Hindi & English (speaking, reading, writing)
- Technological aptitude (electronics, coding, robotics, 3D printing, etc.)
- Ability to travel frequently between school sites
- Creative mindset with passion for innovation in education
- Stakeholder engagement and relationship-building skills
- Teamwork and leadership abilities
- Strong interpersonal skills and the ability to coordinate with school teachers, principals, and education officials.
- Enthusiastic about innovation and capable of motivating students.
- Good problem-solving skills and adaptability to diverse school environments

### Qualifications and Requirements:

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- Bachelor's degree in Science / Engineering / Technology / Education (B.Sc., B.Tech., B.Ed. with Science/Maths) or equivalent.
- Preferred: Diploma or certification in STEM education, Robotics, IoT, 3D Printing, or Tinkering Lab Facilitation.
- Additional training in experiential learning or maker-based pedagogy will be an asset

### **Timeline and Monitoring:**

- **School Visit:** The instructor will be required to visit the school on the scheduled days as per the academic calendar. The timeline of visits will be regularly monitored via the **biometric** attendance system.
- **Working Hours:** Specific hours will be communicated and should be strictly adhered to.

For more details: [contact@pmspl.net.in](mailto:contact@pmspl.net.in)