

PUBLIC RESEARCH & IMPACT REPORT · INDIA · 2026

# Building India's Next Generation of Young Researchers

Al-Majeed Research Labs introduces structured R&D practices to 11th & 12th grade students across India, cultivating analytical thinking, innovation, and real-world problem-solving from an early stage.

Founder

Co-Founder

## 01 ABSTRACT

Al-Majeed Research Labs is an initiative focused on introducing structured research and development practices to students at the pre-university level (11th and 12th grade) in India. The program addresses the critical gap in early exposure to research methodologies by providing a guided, project-based learning environment.

Through a phased approach spanning six months, students are trained to identify real-world problems, conduct research, build prototypes, and present their findings — contributing to India's long-term R&D ecosystem.

**6 Mo**

PROGRAM DURATION

**11–12**

EDUCATION LEVEL

**R&D**

FOCUS AREA

**India**

LOCATION

## 02 INTRODUCTION

India has a large population of young learners with strong academic foundations but limited exposure to practical research and innovation at the school level. While traditional education focuses on theoretical knowledge, there is a growing need to develop critical thinking, problem-solving abilities, and real-world application skills.

Al-Majeed Research Labs was established by **Sulaimaan** and **Abdul Rahman** to bridge this gap by creating a structured platform where students can engage in hands-on research and development at an early stage.

## 03 PROBLEM STATEMENT

The current pre-university education system in India lacks the infrastructure to develop research-ready students. Key deficiencies include:

- Absence of structured research training in school curricula
- Minimal real-world problem-solving exposure for students
- No institutional guidance for building practical, publishable projects
- Few opportunities for students to present or publish their work
- Students entering higher education without foundational research skills

## 04 OBJECTIVES

01 Introduce research methodology to school students in a structured manner

02 Enable students to identify and solve real-world, community-level problems

03 Develop project-building, prototyping, and analytical skills

04 Create a curated repository of student-led research projects

05

Promote an innovation-first mindset at an early academic stage

05

**METHODOLOGY — 6-MONTH PHASED MODEL**

The program follows a carefully sequenced six-phase curriculum, each building upon the last:

1

**Foundation**

Introduces research concepts, observation techniques, and problem identification.

2

**Problem Discovery**

Students identify real-world problems from school, home, and community surroundings.

3

**Research & Ideation**

Guided sessions help students analyse problems and propose viable, creative solutions.

4

**Prototype Development**

Students build working models: software tools, hardware prototypes, or research solutions.

5

**Presentation**

Projects are presented to peers and mentors; students develop communication skills.

6

**Publication**

Students compile formal research reports, building a lasting portfolio of work.

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**PROGRAM DESIGN****Accessible**

Low-cost project execution ensures no student is excluded on financial grounds.

**Practical**

Every task is anchored to real-world applications, not hypothetical scenarios.

**Guided**

Dedicated mentors support each student throughout the entire learning journey.

**Structured**

Weekly progress tracking ensures consistent momentum and accountability.

**Types of Projects Supported:**

- Data analysis & visualisation projects
- Software applications & digital tools
- Hardware prototypes (low-cost, accessible)
- Social & community research studies

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**EXPECTED OUTCOMES**

**Structured Thinking**

Students develop systematic approaches to research and problem decomposition.

**Real-World Projects**

Each participant builds at least one meaningful, deployable project.

**Communication Skills**

Students learn documentation, presentation, and public speaking techniques.

**Innovation Mindset**

Early exposure to R&D cultivates a lifelong drive for creative problem-solving.

**08 SOLUTION & IMPACT MODEL**

Learn

Explore

Build

Validate

Present

**09 LIMITATIONS**

- Limited initial scale — this is an early-stage initiative with room to grow
- Dependence on mentor availability and volunteer commitment
- Variation in baseline skill levels across student cohorts
- Academic schedule constraints may compress project timelines

**10 FUTURE SCOPE****Multi-School Expansion**

Scale the program to partner schools across multiple Indian states.

**Digital Research Platform**

Build an online portal for project submission, mentorship, and peer review.

**Institutional Collaboration**

Partner with colleges, universities, and research institutes.

**National Research Showcase**

Host an annual student-led research symposium at the national level.

**11 CONCLUSION**

**Al-Majeed Research Labs**, led by **Sulaimaan** and **Abdul Rahman**, aims to transform the way students engage with learning by introducing research and development at an early stage. By enabling students to think critically, solve real-world problems, and build meaningful projects, the initiative contributes toward developing a future-ready generation of innovators in India.

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## REFERENCES

- [1] National Education Policy (NEP) 2020 — Government of India
- [2] Open Educational Resources on Research Methodology