

## FORMATS FOR SUBMISSION:

### FORMAT – 1

#### APPLICANT'S EXPRESSION OF INTEREST

To,

“The Mission Director,  
Atal Innovation Mission, NITI Aayog,  
Sansad Marg , New Delhi, 110001 ”

**Sub: Submission of Expression of Interest for undertaking training services to the ATL Teachers.**

Dear

In response to the Invitation for Expressions of Interest (EOI) published on xx.xx.xxxx for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we attach 2 sets of the following documents in separately sealed envelopes and one soft copy:

1. Organizational Details (Format-2)
2. Experience in related fields (Format-3)
3. List of experts / consultants on payroll at least 3 (Format-4)
4. Financial strength of the organization (Format-5)
5. Additional information (Format-6)
6. Declaration (Format-7)

Sincerely Yours,

Signature of the applicant

[Full name of applicant]

Stamp.....

Date:

Encl.: As above.

Note: This is to be furnished on the letter head of the organization.

### FORMAT – 2

S. No	Organizational Contact Details	
1.	Name of Organization	
2.	Main areas of business	
3.	Type of Organization Firm/ Company/ partnership firm registered under the Indian Companies Act, 1956/ the partnership Act, 1932	
4.	Whether the firm has been blacklisted by any Central Govt. / State Govt./PSU/ Govt. Bodies / Autonomous? If yes, details thereof.	
5.	Address of registered office with telephone no. & fax	
6.	Address of offices in i) National Capital Region of Delhi ii) All other State/UT's	
7.	Contact Person with telephone no. & e-mail ID	

Enclose:-

1. Copy of Certificate of Incorporation.
2. Copy of Article of Association in respect of 3 above.
3. Undertaking in respect of 4 above.

Signature of the  
applicant

Full name of the  
applicant

Stamp & Date

**FORMAT – 3**

<b>Experience in Related Fields</b>						
Overview of the past experience of the Organization in all aspects related to Brand Building related						
<b>S. No</b>	<b>Items</b>	<b>Number of Assignments during last 5 years</b>	<b>Order Value of each assignment in Crores of Rs. (Enclose copy of each order)</b>	<b>Mention the name of Client/ Organization (Enclosed completion certificates)</b>		
<b>1</b>	Experience of assignments of similar nature					
<b>1.1</b>	Experience in carrying out similar assignments in Government					
<b>1.2</b>	Experience in carrying out similar assignments in Public sector.					
Decision of Evaluation Committee in ascertaining “similar nature” and “similar assignment” will be final.						
						Signature of the applicant Full name of applicant Stamp & Date

**FORMAT – 4**

**List of experts/consultants on payroll (at least 3)**

S. No	Name	Designation	Qualification	Relevant Experience
1.				
2.				
3.				
.				
5.				
6.				

Signature of the  
applicant  
Full name of  
applicant  
Stamp & Date

**FORMAT – 5**

<b>Financial Strength of the Organization</b>					
S. No	Financial Year	Whether profitable Yes/NO	Annual net profit (in Crores of Rs.)	Overall annual turnover (in Crores of Rs.)	Annual turnover from only Consultancy services rendered in India (in Crores of Rs.)
1	2015-16				
2	2016-17				
3	2017-18				

Note: Please enclose auditor's certificate in support of your claim.

Signature of the  
applicant

Full name of  
applicant

Stamp & Date

**FORMAT – 6**

**Additional Information**

1. List all enclosures related to the previous sections.

S.NO	Description	No. of pages

2. Additional information to support the eligibility as per Section 7 (Not more than 2 pages).

Signature of the applicant

Full name of applicant

Stamp & Date

## FORMAT -7

### Declaration

We hereby confirm that we are interested in competing for the Services to undertake training services to the ATL Teachers.

All the information provided herewith is genuine and accurate.

Authorized Person's Signature.

Name and Designation:

Date of Signature:

**Note:** The declaration is to be furnished on the letter head of the organization.

**TRAINING SERVICES TO ATAL TINKERING LAB. TEACHERS**

**TERMS OF REFERENCE**

The Atal Innovation Mission has selected 5441 schools to establish Atal Tinkering Labs and has sanctioned and transferred grant-in-aid of Rs. 12 Lac each to 1,109 schools across the country.

As the world enters into the fourth industrial revolution, a new set of skills have to be developed and mastered. For India to contribute significantly to the fourth industrial revolution, we need to empower our youth with these ‘skills of the future’. These skills include computational power, Internet of things (IoT), artificial intelligence, design thinking, advanced robotics, and cyberphysical systems – to name a few. The Atal Tinkering Lab is a platform for school students to develop these ‘skills of the future’ through practical application based on self-learning.

However, since tinkering is a new concept in India, it will require continuous handholding facilitated by a sustained engagement with experts. Hence we would like to propose a comprehensive training program for ATL teachers on the ATL philosophy, establishment of lab, successfully running the lab, and other elements related to ATL equipment, prototyping, coding, Open-source technology, microcontroller boards, electronics, rapid prototyping, 3D printing, tool training and other relevant skills.

In order to create a group of trained teachers and mentors in all the ATLs across the country, it is proposed to organize a series of phased trainings, in partnership with experienced training organisations. Given the newness of the concept of tinkering in India, it is advisable to bring in trainers who have prior hands-on knowledge in training, tinkering and are connected to the ‘Maker’ community of India.

The target is to cover around 5000 ATL schools spread across 32 different states and union territories of India. This program of training would be oriented towards cohorts of 40 teachers/mentors from 20 schools each, and would be delivered in 4 days’ sessions over three to four months. The venues for these training sessions will be the existing ATLs spread across the country. It is expected that a hands-on training would be sufficient to provide adequate skills to a school teacher to enable to take up the responsibility of an ATL in-charge.

For the same, Atal Innovation Mission invites potential training organisations to offer their services via a tendering process.

**1. Pre - Qualifying Criteria**

Following qualifying criteria is suggested to be considered whilst selecting a Training organisation.



- viii. In-house curriculum aligning with the ATL philosophy.
- ix. Past experience of conducting ‘hands-on’ training for teachers and mentors on tinkering and innovation
- x. At least 3 years of existence in the market/community.
- xi. Maker community reach – for potential mentor pool to cover thousands of ATL schools widely spread across 32 states and union territories of India
- xii. The organisation should not promote any specific product or service.
- xiii. Community Credibility- won some accolades/ recognition in innovation area
- xiv. Any other major observations during evaluation can be considered.

## 2. List of Training topics

- i. Introduction to Atal Tinkering Lab.
- ii. Philosophy of Atal Tinkering Lab.
- iii. Integrating ATL activities with day-to-day school activities.
- iv. Design Thinking
- v. Ideation
- vi. Hands-on prototyping Sessions
- vii. Basics of Electronics
- viii. Logic – Algorithm and Flowcharts
- ix. Basics of Coding/programming – Using IDE, block coding
- x. Basic Circuitry
- xi. Electronic Components – Discrete components, Sensors, Actuators, etc.
- xii. Open Source Microcontroller boards – Architecture, design, coding, implementation, troubleshooting, etc.
- xiii. Internet of Things
- xiv. Digital Literacy and Digital wellness.
- xv. Teamwork and Leadership
- xvi. 3D modelling and design
- xvii. 3D Printing – hardware and troubleshooting
- xviii. Hand/Power tools training.
- xix. Soldering.
- xx. How to make an effective presentation.
- xxi. Intellectual property protection and Patenting.

## 3. Draft Agenda

TIME	SESSION	SESSION DETAILS	MODE
<b>DAY 1</b>			
8:30 AM – 9:00 AM	Welcome & Introductions	Group Introductions	Presentation & Discussions
9:00 AM – 10:40 AM	Context setting	Overview of ATL program Overview of the Training Program – Online & offline	Presentation & Discussions
<b>TEA BREAK</b>			
11:00 AM	Life Skills	Design Thinking	Presentation

– 1:00 PM	Coaching Skills Facilitation Skills	Overview & deep drive Interactive Sessions	& Discussions
<b>LUNCH</b>			
1:40 PM - 3:40 PM	Introduction	Basics of Electronics – Components, circuitry, etc Hands-On Session on Electronics	Presentation & Discussions
<b>TEA BREAK</b>			
4:00 PM - 5.30 PM	Activity	Paper and Basic Circuits	Hands-On
<b>DAY 2</b>			
8:30 AM – 9:00 AM	Reflections	Recap of Day 1	Discussion
9:00 AM – 9:30 AM	Introduction	Algorithms and Flowcharts.	Presentation & Discussions
9:30 AM – 10:40 AM	Explore	Sensors and Actuators Components in the ATL Lab	Hands-On
<b>TEA BREAK</b>			
11:00 AM – 1:00 PM	Activity	Basics of Arduino (Hardware + IDE)	Hands-On
<b>LUNCH</b>			
1:40 PM - 3:40 PM	Activity	Coding/Programming Basics.	Hands-On
<b>TEA BREAK</b>			
4:00 PM - 5.30 PM	Explore	Digital Literacy and Digital wellness Internet - hygiene and safety.	Presentation & Discussions
<b>DAY 3</b>			
8:30 AM – 9:00 AM	Reflections	Recap of Day 2	Discussion
9:00 AM – 10:40 AM	Explore	Leadership and Teamwork Safety norms in the ATL	Hands On
<b>TEA BREAK</b>			
11:00 – 1:00 PM	Explore	Introduction to basics of IOT and Raspberry Pi.	Hands On
<b>LUNCH</b>			
1:40 PM - 3:40 PM	Explore	Introduction to 3d printing and 3D design Show and explain products/ models created during the workshop	Presentation & Discussions
<b>TEA BREAK</b>			
4:00 PM - 5.30 PM	Show and tell Feedback session	3D Modelling – Slicing 3D Printer – maintenance and troubleshooting.	Discussion & Presentation
<b>DAY 4</b>			
8:30 AM – 9:00 AM	Reflections	Recap of Day 3	Discussion

9:00 AM – 10:40 AM	Explore	Hands-On – (30 minutes each by each mentor) A. Soldering. B. Glue Gun, Heat Gun. C. Multipurpose Rotary tool.	Hands On
<b>TEA BREAK</b>			
11:00 – 1:30 PM	Activity	Hackathon – Creating time.	Hands On
<b>LUNCH</b>			
2:00 PM - 2:30 PM	Present	Present your creation	Presentation & Discussions
2:30 PM - 4:30 PM	Explore	Protecting Intellectual Property Rights by DIPP	
4:30 PM - 5:00 PM	Closure	Sharing Experiences	
<b>CLOSURE WITH TEA</b>			