

### Information About the Respondent

1. What is your name (first, last)?
2. What is your email?
3. What is your role/title?
4. What is the name of your organization?
5. Where is your organization's mailing address?
6. Which best describes your organization?
  - a. Public district or school
  - b. Charter school
  - c. Private school
  - d. For-profit edtech company
  - e. Nonprofit edtech company
  - f. Research institution/University
  - g. Non-edtech nonprofit organization
  - h. Non-edtech for-profit organization
  - i. After-school program
  - j. Not listed (please specify):
7. How does your organization (staff, board, advisory groups, partners, etc.) represent the perspectives of those you are serving? (100 word maximum)
8. Are you submitting this RFI in partnership with another organization or individual?
  - a. If yes: Which organization(s), university(ies), district(s), and/or individual(s) are involved? Please provide a contact person (name, role, email) for any partners described.
9. Have you or your organization or any of the affiliated responding organizations previously received funding from the Bill & Melinda Gates Foundation?

### Information About the Submission

10. What is the geography of your current impact?
  - a. United States: Nationwide
  - b. United States: Specific state(s) (please specify):
    1. United Kingdom
    2. Sub-Saharan Africa
    3. India
    4. Not listed (please specify):
11. Age group
  - a. Early Childhood
  - b. Primary (Grades K-5)
  - c. Secondary (Grades 6-12)
  - d. Post-secondary
  - e. Not listed (please specify):
12. Who is the primary beneficiary for this project?

- a. Teachers
  - b. Instructional coaches
  - c. Students
  - d. The field (e.g. research findings will support the field in better understanding AI in math education)
  - e. Other primary end users (please specify):
13. Do we have your permission to share your submission with others? Select all to whom you consent to accessing your submission.
- a. The submission can be shared in its entirety with other interested funders.
  - b. The submission can be shared in its entirety with other relevant respondents.
  - c. The title of the submission and contact information can be shared with other interested funders.
  - d. The title of the submission and contact information can be shared with other relevant respondents.
  - e. No, please do not share any information.
14. How did you hear about this RFI?
- a. Direct outreach from a partner
  - b. ASU+GSV
  - c. Newsletter
  - d. Social Media
  - e. Not listed (please specify):
15. Approach maturity category
- a. Concept has not been prototyped or tested, or is a research project.
  - b. Concept has been prototyped and initial field tests have been conducted.
  - c. Approach is in use in multiple educational settings with teachers and/or students, is being tested for impact and there is a focus on new feature development and/or scale.

### **Descriptive Questions About the Approach**

16. Title of your research-based approach: (10 word maximum)
17. In plain language, describe your approach. Please incorporate answers to the relevant sub-questions in your response. (500 word maximum)
- a. What is the existing challenge that your approach addresses?
  - b. What evidence demonstrates there is a need or demand for this approach?
  - c. What is your theory of change for how your approach impacts math teaching and/or learning?
  - d. What are the evidence or research underpinnings behind your approach?
  - e. If your project is successful, what difference will it make? What are the measures of success?
  - f. Do you have existing evidence of impact through related projects?
  - g. What is the current reach of your approach (e.g., in the number of teachers, students, schools, or districts served)? If applicable, please list the top three

- largest districts you partner with. If you are at the early concept stage, what is your intended reach and how do you plan to get there?
18. We believe that co-design or participatory design that actively involves all constituents (e.g., users, clients, designers, researchers) – particularly Black and Latino students and students impacted by poverty and their teachers, as these communities have historically been excluded in education design decisions – leads to better approaches that meet real needs and are usable. What did/will the design process look like for this approach? Please incorporate answers to the relevant sub-questions in your response. (300 word maximum)
- Who do/will you co-design with and why?
  - How are intended end-users driving design and development in an iterative way?
  - How is impact shared back with co-designers?
19. How does the research-based approach leverage AI in innovative ways? Why do you think the use of AI would drive greater impact? Please incorporate answers to the relevant sub-questions in your response. (100 word maximum).
- If this is an early stage concept, please share any current hypotheses for how to either identify the appropriate partners to support the project or develop the technology.
  - What are the risks to leveraging AI for this project? How do you plan to mitigate these risks?
20. What type(s) of technology(ies) do you anticipate using in this project? Select all that apply.
- I'm not sure yet
  - Natural language processing (NLP)
  - Large language models (LLM)
  - Small language models (SLM)
  - Chatbots
  - Robotics
  - Automatic speech recognition (ASR)
  - Computer Vision
  - Predictive AI
  - Not listed (please specify):
21. We believe successful partners know their strengths along with the areas where they will need support. Our intention with this question is to understand your organization's self-awareness around the types of supports you need to be most impactful. What do you need to make this idea happen (e.g., expertise in development and engineering, research and measurement, scale and marketing, access to districts/schools, etc.)? Where are your strengths? What gaps do you have that resources could support you in achieving? (100 word maximum)