Bracket 1
Entrant Information
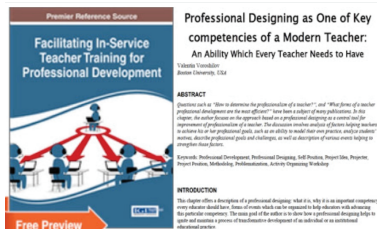
I am submitting this entry as:
an individual entrant

Big Idea Information

Title of your Big Idea
National database teacher PD

Upload an image to represent your Big Idea or your team.

What are your scientific or engineering research interests or areas of expertise?
teacher professional development

What is the compelling question or challenge?
Current system of teacher professional development is highly inefficient.

What do we know now about this Big Idea and what are the key research questions we need to address?
There is virtually no statistics on how existing teacher professional development programs help teachers to become better teachers.

Why does it matter? What scientific discoveries, innovations, and desired societal outcomes might result from investment in this area?
The realization of this project would present a new and innovative approach to helping teachers with advancing their professionalism; should not draw an objection from teacher unions, and would help the government and the researchers to gather and systematize a vast amount of information about the effectiveness of various teacher professional development programs, events, providers.

If we invest in this area, what would success look like?
1. National database of teacher professional development providers and their programs. 2. Ranking professional development providers and their programs based on their effectiveness. 3. Nudging professional development providers into improving their programs, adjusting their

programs to the everyday needs of teachers. 4. Accumulating vast amount of data in the field of teacher professional development, which will allow to significantly improve study on the field.

Why is this the right time to invest in this area?
Teachers is the central, crucial, core, the most important element of the whole system of public education, which will remain such for at least several decades. That is why advancing the system of teacher professional development should be one of the key elements of reforming education.

Please give us three key words describing the Big Idea.
teacher professional development, datamining, education

Publication/Citation References (optional)

In the boxes below, you may list up to 3 publication/citation references, either by text or link.

Reference #1
Developing the nation-wide database of the quality of teacher professional development programs, events, and providers.

Reference #1 URL
https://www.cognisity.how/2018/09/profdev.html
Reference #2
Professional Designing as One of Key Competencies of Modern Teacher: an Ability Which Every Teacher Needs to Have

Reference #2 URL
http://www.cognisity.how/2016/10/facilitating.html
Reference #3
Education reform needs a new paradigm.

Reference #3 URL
http://www.cognisity.how/2018/02/paradigm.html
Agreements and Validations

I consent to NSF's use and display of the submitted information and contestants' names and likenesses.
I agree

I confirm that all individual, teacher, and team entrants meet the age and citizenship/residence requirements, and agree to abide by all rules of the NSF 2026 Idea Machine as described in the

eligibility criteria and rules

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I agree

Forms and Releases

All individual and team entrants must be at least 14 years of age as of September 1, 2018.

Individuals: If you are under 18 years of age, please upload a completed parental/guardian permission form (located in the Quick Links to your left) here.

Team leaders: Please collect the signed parental/guardian permission form for any team members younger than 18 years of age (including yourself) and combine them into one document to be uploaded here.

Teachers entering on behalf of high school classes are not required to submit parental/guardian forms on behalf of their classes.