**US Ignite: Enabling Cross-Community Applications - Questionnaire**

Please complete this questionnaire and return it to Jessica.Roeder@us-ignite.org by March 7, 2014

Let us know if you have any questions!

**Section 1: CONTACT INFORMATION**

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| --- | --- | --- | --- |
| A. Proposal Point of Contact | | | |
| Your First Name |  | Your Last Name |  |
| Your Email |  | Your Phone |  |
| Organization Name |  | US Ignite Community Name |  |

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| --- | --- | --- | --- |
| B. Community Organizer (if different) | | | |
| First Name |  | Last Name |  |
| Email |  | Phone |  |

**Section 2: PROPOSED CROSS-COMMUNITY PROJECTS**

**Cross-Community Application Project #1:**

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| A. Description (name plus 1-sentence) |
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| B. Sector – please mark primary sector with an X below | | | |
|  | Education and Workforce Technologies |  | Energy |
|  | Health |  | Public Safety |
|  | Transportation |  | Advanced Manufacturing |

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| C. Problem or Issue Being Addressed |
| MacArthur Foundation-funded “Learning Labs” such as the YouMedia spaces in Chicago provide unique opportunities to bring together youth in exciting, peer-based experiential learning environments. But not all youth are able to travel to such facilities, nor are these facilities able to provide directly all the resources available in the broader community. We have been building a federation of learning labs throughout our local community that foster peer-based experiential learning within participating schools, public libraries, and after school programs. This work is part of an initiative to bring STEM and computational thinking to all, and especially those most at risk of academic failure because of low socio-economic status or disability. By building a federation, we are able to extend collaborative learning to others in the community including parents, neighbors, and the broader community. Still, peer-based support occurs primarily within each facility supplemented with support from other facilities using asynchronous online tools. The federation of learning labs are now interconnected through the Urbana Champaign Big Broadband fiber-optics to the premise network. We seek to build a platform to support peer-based learning that integrates the best features found within synchronous video conferencing software such as Blackboard Collaborate or Google Hangouts and course management software such as Moodle. While these off-the-shelf products meet many of our needs, they do not provide an integrated interface across packages, nor do they incorporate critical pedagogical foundations found in the learning labs, such as “Hang out, Try out, Geek out”. Further, it is important to include important security features if the software is to meet the CIPA and FERPA requirements for such software to be used within K12 school programming. Finally and most significantly, we can incorporate features such as high-resolution video and real-time audio only possible on an ultra high-speed, low-latency network. |

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| D. Scientific & Engineering Approach |
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| E. Novelty & Benefits of Solution |
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| F. Project Leader (for the application) | | | |
| First Name |  | Last Name |  |
| Email |  | Phone |  |

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| G. Project Plan |
| Describe your planned approach in 1-2 pages. Be sure to include:   * Specific outcomes expected (goals) * Timeline by project stage (e.g., design, prototype, initial testing, iterative development, user testing, preparation for production, deployment) * Budget identifying resources needed and sources of resources (see FAQs for this proposal) * Specific way the $10,000 adaptation and deployment funding would be used * Project team and their roles (and qualifications to serve those roles) – include partners (see FAQs for this proposal); use names where known; identify needed skills where the name is not known |

**Cross-Community Application Project #2:**

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| A. Description (name plus 1-sentence) |
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| --- | --- | --- | --- |
| B. Sector – please mark primary sector with an X below | | | |
|  | Education and Workforce Technologies |  | Energy |
|  | Health |  | Public Safety |
|  | Transportation |  | Advanced Manufacturing |

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| C. Problem or Issue Being Addressed |
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| D. Scientific & Engineering Approach |
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| E. Novelty & Benefits of Solution |
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| F. Project Leader (for the application) | | | |
| First Name |  | Last Name |  |
| Email |  | Phone |  |

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| G. Project Plan |
| Describe your planned approach in 1-2 pages. Be sure to include:   * Specific outcomes expected (goals) * Timeline by project stage (e.g., design, prototype, initial testing, iterative development, user testing, preparation for production, deployment) * Budget identifying resources needed and sources of resources (see FAQs for this proposal) * Specific way the $10,000 adaptation and deployment funding would be used * Project team and their roles (and qualifications to serve those roles) – include partners (see FAQs for this proposal); use names where known; identify needed skills where the name is not known |

**Section 3: INFRASTRUCTURE SUPPORT**

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| A. Describe any existing US Ignite or GENI rack in your community and its connectivity |
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| B. Potential location for a US Ignite rack and layer 2 connection (if a new one is needed)? |
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| C. Contact person for existing or new rack and/or connection | | | |
| First Name |  | Last Name |  |
| Email |  | Phone |  |