CCTRP/UH Infectious Disease Pilot

Request for Applications (RFA)

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Program Synopsis:
University Hospitals and the Case Coulter Translational Research Partnership are pleased to offer a collaborative pilot award opportunity to promote the development of new translational research projects between problem owners (clinicians) and solution providers (engineers). The target areas for funding are in the infectious disease domain and are described later in more detail.

Applicants should propose novel solutions to the clinical problems described below:

1. **Central line related bloodstream infections** – Central lines not only allow delivery of continuous fluids, therapies, and food to critically ill patients while in the hospital, but also receive therapies at home. In caring for these semi-permanent lines, meticulous attention to infection prevention processes is needed to assure that bacteria (leading to life-threatening infections) does not enter the lines.

2. **Surgical site infections** – Surgical site infection (SSI) continues to represent a significant portion of healthcare-associated infections. The impact on morbidity, mortality, and cost of care has resulted in SSI reduction being identified as a top national priority in the US Department of Health and Human Services Action Plan to Prevent Healthcare-Associated Infections.

3. **Emerging Infectious Diseases** – Each time a solution for antimicrobial therapy or eradicating diseases is developed through the use of vaccines, there is an evolution in the microbes that causes new diseases appear, such as Methicillin-resistant Staphlococcus aureus (MRSA).
**Eligibility**
The submitting co-PI is required to be a full-time CWRU engineering faculty member with an appointment in biomedical engineering.

The clinical co-PI will be matched to the program after the review process is completed. The submitting co-PI may include suggestions for the clinical co-PI.

**Available Funds**
Total funding of $50,000 is available for this program. Award budgets of $10,000 - $50,000 may be requested. It is expected that between one and three applications will be accepted for funding. Awards will be funded for a period of 6 months to 1 year.

**Application**
Applications may be no longer than two (2) pages. A minimum of 11-point font in Arial, and single spacing should be used. Margins should be at least 0.5” on all sides.

Applications should address the following topics:
- Clinical Problem
- Technical Solution Proposed
- End users of proposed technology
- Project Plan
- Budget summary

Applications should be sent in PDF format to: steve.fening@case.edu with “CCTR/P Pilot” in the subject heading.

**Deadline**
Applications are due on Nov 1, 2016. Awards are expected to be announced in late November and awards setup to start before the end of 2016.