

The Biologistics Cluster of the FedEx Institute of Technology at the University of Memphis is pleased to announce the third Call for Proposals for faculty at the University of Memphis for interdisciplinary research pertaining to any aspect of Biologistics. The FedEx Institute of Technology will provide seed funding to several pilot projects that will help continue to build the University as a premier research hub for Biologistics. Faculty whose proposals are selected for funding will be designated as Biologistics Research Fellows of the FedEx Institute of Technology. They will also be required to present results of their research at an annual conference on Biologistics organized by the cluster at the FedEx Institute of Technology. Applicants are encouraged to specify in their proposals opportunities and mechanisms for data collection and collaboration with industry, community, and government partners. Priority will be given to proposals that can:

1. Demonstrate relevance to the cluster's research areas (a requirement)
2. Engage interdisciplinary faculty teams
3. Explore novel concepts that can transform Biologistics in the future
4. Identify a need for research; describing benefits and impacts of research outcome
5. Involve students (undergraduate and graduate)
6. Show appropriate use of budget and cost-effectiveness
7. Exhibit qualification of applicants to perform work and demonstrated likelihood of successful completion
8. Demonstrates high potential to attract public and private sector funding and partnerships

Some examples of areas of research interest include the following (but faculty are encouraged to propose other interdisciplinary aspects as well):

- Advances in smart systems for end-to-end tracking of biomaterials
- Advanced packaging solutions
- Business intelligence in biologistics
- Biologistics dimensions of manufacturing of medical device and implants
- Big-data analysis for biologistics
- Centralized bio repository potential in Memphis for increasing logistical efficiencies
- Legal issues impacting biologistics and the Internet-of-Things
- Social and community impacts pertaining to biologistics
- Developing evidence-based standards for cold-chain logistics
- Integration of IoT to enable predictive insight
- Innovative use of real-time data in cold-chain processes
- Novel materials handling processes
- Modeling/optimization for reducing supply chain vulnerability
- Solutions to regulatory compliance/GDP challenges
- Real-time solutions for logistics challenges
- Biological, physical and chemical dimensions of biologistics

Deadline for receipt of proposals is 11:59 PM on May 18, 2018. Please submit proposals as email attachments addressed to Dr. Firouzeh Sabri at fsabri@memphis.edu and Dr. Mihalios Golias at mgkolias@memphis.edu. Those submitting proposals will be notified regardless of outcome within eight (8) weeks of the proposal submission deadline.