

Simons Investigators in Mathematical Modeling of Living Systems

Estimated Award Amount: \$500,000 plus \$50,000 for investigator's department

Opportunity Summary:

The MMLS program aims to support theoretical approaches making important contributions to the life sciences and, thus, to foster a scientific culture of theory-experiment collaborations similar to that prevailing in physics. To encourage researchers to pursue this endeavor, the MMLS program will provide a long-term, stable base of support, enabling a focus on model-based approaches to important issues in the life sciences. Investigators in MMLS are outstanding scientists, often with mathematics or theoretical physics backgrounds, now engaged in research based on mathematical modeling in the life sciences.

A broad spectrum of research areas within the life sciences will be considered, ranging from cellular-level issues of organization, regulation, signaling and morphogenic dynamics to the properties of organisms and ecology, as well as neuroscience and evolution; however, preference will be given to areas in which modeling approaches are less established and, for this reason, bioinformatics- and genomics-related proposals fall outside the scope of the program. In all cases, preference will be given to work developing deep theoretical ideas relevant to experiments, suggesting new questions and new classes of experiments, introducing important, new concepts, and explaining data.

Eligibility & Requirements:

- To be an Investigator in MMLS, a scientist must be engaged in research related to the program, and must have a primary appointment as a faculty member at a U.S., Canadian or U.K. institution with a Ph.D. program.
- Investigators must not have previously been a Simons Investigator.
- At the time of appointment, an Investigator should be in the early stages of an academic career and must be within ten years of the start of his/her first faculty position.
- Investigators are not eligible to hold a Simons Fellowship for the duration of the Simons Investigator award.

This is a limited submission opportunity. All interested JHU faculty members must apply through the Research Development Team by **September 13, 2018**. More information can be found here:

<https://research.jhu.edu/wp-content/uploads/2018/07/SimonsFoundationMML.pdf>