

SCIENCE AND ENGINEERING RESEARCH BOARD

Short-term MATRICS special call on

Mathematical Modeling and Computations for COVID-19 Infections

(March 31, 2020)

COVID-19 has become a global pandemic straining health system in many countries. In the absence of a COVID-19 vaccine, reducing the contact rates in the population is considered to be a better option to reduce the transmission of the deadly coronavirus. As R&D units of the nation is striving to come up with antivirals and vaccines to eliminate this virus, it is also important to develop mathematical models to study the rate of spread of COVID-19 among the population. Similarly, data driven inference is also critical for forecasting of coronavirus infections.

In this context, SERB announces short-term projects in the following areas, preferably with multidisciplinary efforts under its MATRICS program:

- Mathematical Modeling of COVID-19 Spread
- Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
- Focused Algorithms for Infectious Disease Modeling
- Quantitative Social Science Approaches for Epidemiological Models

Project duration would be one year with a fixed grant of Rs. 5 lakh plus overhead. Proposals should be submitted through SERB online portal (www.serbonline.in) in MATRICS format.

Project proposals which are not related to the theme of the call will not be considered.

Project proposals will be evaluated on first-come basis, with a last date of submission as April 30, 2020.

Applicants holding ongoing projects under MATRICS are also eligible to apply under this call.