21 August 2017

Data Assimilation Research Team,

RIKEN Advanced Institute for Computational Science

**Data Assimilation Innovation Hub Research Fund**

1. **Outline**

Data assimilation (DA) is a cross-disciplinary science to synergize computer simulations and real-world data, based on statistical mathematics and dynamical systems theory. DA has long been playing a crucial role in numerical weather prediction (NWP), and recently, DA started to be applied more widely to numerical simulations beyond geophysical applications, such as planetary science and biological science. Contemporary fundamental challenges include better treatment of nonlinear and multi-scale system evolution, complex observation operators, and variables with non-Gaussian properties. Developing efficient computational algorithms has also been a major issue.

Since September 2016, RIKEN Advanced Institute for Computational Science (AICS) has launched a project titled “Data assimilation as an innovation hub to connect mathematical science, experimental and observational science, and computational science.”

Start-up research funds are available for new ideas to start data assimilation-related research. We welcome new ideas broadly related to data assimilation which connects experimental/observational sciences and simulation/computational sciences.

1. **Goals**
   1. Fill the application form. Write a proposal about new ideas to start data assimilation-related research.
   2. Brush-up the idea to a research plan in detail. This is the main part of this project.
2. **Requirements**
3. PI/research staff in RIKEN
4. Successful applicants need to collaborate with the Data Assimilation Research Team, such as attending the Data Assimilation Seminar at AICS, Kobe at the beginning (September-October 2017) and the end (February-March 2018) of the project to report your progress.
5. Successful applicants are encouraged to attend the RIKEN Data Assimilation Workshop on 25-26 September 2017.
6. **Amount**

Maximum 1,000,000 yen per project

1. **Availability**

A few projects

1. **Schedule**

Primary schedule:

Application: 21 August 2017 to 7 September 2017

Acceptance notification: 14 September 2017

Project period: Early-October 2017 to 31 March 2018

Secondary schedule:

Application: 8 August 2017 to 21 September 2017

Acceptance notification: 28 September 2017

Project period: Mid-October 2017 to 31 March 2018

1. **How to apply**

Fill the form and send it by email to: da-fund-app@riken.jp

1. **Selection**

Applications will be screened by the data assimilation research team.

1. **Contact**

Data Assimilation Research Team,

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da-fund-app@riken.jp