



Department of Science & Technology  
Govt. of India



IUSSTF  
Indo-US Science and Technology Forum

# Research Initiative for Real Time River Water and Air Quality Monitoring

Access to clean water and air is indispensable to human life. Yet, managing this access in an efficient and effective manner is an immensely complex challenge. With this background, the **Department of Science and Technology, Govt. of India (DST)** and **Intel®** have collaborated to initiate a research program titled "**Research Initiative for Real-time River Water and Air Quality Monitoring**". The program will be administered by the binational **Indo-U.S. Science and Technology Forum (IUSSTF)**.

## Objective

To develop key technologies for sensing, communication and analysis of large-scale data collected from autonomous networks of perpetual/long-lived sensor nodes, followed by integration and deployment for water and air quality monitoring in real-time.

## Program Structure

DST and Intel expect to award Research, Development and Demonstration Projects addressing multiple Research Vectors, integrated in a manner to develop complete technological solution(s) that can be demonstrated first through *test-bed* in controlled conditions, and subsequently in *real-time deployment*. Both these milestones have to be completed during the tenure of the project. Such projects would normally be supported for a maximum duration of 5 years and at a total cost ceiling of about INR 15 Crore.

Two fully integrated projects with interdisciplinary teams - one for river water and another for air quality monitoring, are intended to be supported.

## Eligibility

National Laboratories, Academic Institutions and autonomous Research Organizations in India are eligible to apply for the Grant-in-aid. The participation of at least one U.S. entity is mandatory. Partnership of users and other stakeholders is desirable.

For program  
information, please visit

[www.iusstf.org](http://www.iusstf.org)

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**Submission Deadline: 10 March 2017**