

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
LOK SABHA
UNSTARRED QUESTION No. 3602
TO BE ANSWERED ON 22.3.2023
SCHEMES FOR INVENTIONS**

†3602. SHRI NABA KUMAR SARANIA:

Will the Minister of SCIENCE AND TECHNOLOGY विज्ञान और प्रौद्योगिकी मंत्री be pleased to state:

- (a) the details of the schemes being implemented for latest inventions by scientists in our country;**
- (b) whether any scheme is being implemented for various research work and their promotion for encouraging new scientists and if so, the details thereof along with the number of scientists who have got assistance under these schemes since the year 2014;**
- (c) whether any scheme is being implemented for junior scientists and if so, the details thereof; and**
- (d) the details of the number of scientists engaged in research work abroad under various schemes?**

ANSWER

**MINISTER OF STATE (INDEPENDENT CHARGE) FOR THE
MINISTRY OF SCIENCE AND TECHNOLOGY AND EARTH SCIENCES
(DR. JITENDRA SINGH)**

**विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार)
(डॉ. जितेंद्र सिंह)**

(a) The Department of Science and Technology has been implementing several schemes/programmes for promoting S&T breakthrough in areas covering the emerging/futuristic technology areas. Some the major schemes/programmes include the National Mission on Interdisciplinary Cyber Physical Systems; National Super Computing Mission; National Mission in Nano Science and Technology; Clean Energy Research Initiative; Water Technology Initiative, Carbon Capture, Utilisation and Storage; Technology Research Centres, INSPIRE-MANAK etc. Council of Scientific & Industrial Research (CSIR) through its National Laboratories Scheme, has been promoting various R&D projects in both basic and applied research. CSIR is continuously striving for

commercialization and deployment of knowledge base developed in its laboratories for the benefit of the masses. Amongst distinct categories of R&D projects leading to development of technologies and products, CSIR has been implementing Mission Mode Projects (MMPs), New Millennium Indian Technology Leadership Initiative (NMITLI) Program, Fast Track Translation (FTT) Projects, Fast Track Commercialization (FTC) Projects, Facility Creation Projects (FCP) and COVID-related Major Laboratory Projects (MLP) beside in-house projects of CSIR Labs.

(b) & (c) The Ministry of Science and Technology is implementing various schemes for research work and promotion for encouraging new scientists and young scientists. Some of the key programmes/scheme supported a number of new and junior scientists since 2014 include: Department of Science and Technology (DST) -Young Scientists and Technologists (SYST) – 235; Science and Engineering Research Board (SERB)- National Post-Doctoral Fellowship (N-PDF) - 3799; SERB-Young Scientist Scheme (YSS) – 2177; SERB-Early Career Research Award (ECRA) - 2006; Start-up Research Grant (SRG) – 1815; CSIR through its National S&T Human Resource Development Scheme awarded 1689 Postdoctoral Fellowships; Innovation in Science Pursuit for Inspired Research (INSPIRE) Faculty Fellowship scheme supported 1082 fellows to pursue research for a period of 5 years in both basic and applied science areas.

(d) A total of 145 young scientists were supported to visit leading institutions/universities across the globe for a period of 02-06 months to impart high-end research training in frontier areas of science and technology under SERB-International Research Experience (SIRE) scheme.
