

GOVERNMENT OF INDIA  
MINISTRY OF EDUCATION  
DEPARTMENT OF HIGHER EDUCATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO.1958**  
ANSWERED ON 13/03/2023

**Ph.D Holders in Science**

1958. SHRI M.V.V. SATYANARAYANA:  
SHRI P.V. MIDHUN REDDY:  
SHRI N. REDDEPPA:

Will the Minister of EDUCATION be pleased to state:

(a) whether the Government is aware that 2000 out of the 6000 people granted science Ph.Ds annually in the country cannot find decent jobs;

(b) if so, the details thereof and the measures taken or proposed to be taken by the Government to ensure better job opportunities for Ph.D holders, especially in the sciences;

(c) whether the Government has any plans to expand recruitment in Indian Institutes of Technology (IITs) or Indian Institutes of Science Education and Research (IISERs) for science Ph.D students;

(d) if so, the details thereof and if not, the reasons therefor; and

(e) the steps taken/proposed to be taken by the Government to expand opportunities for Ph.D holders in different fields, other than academia to prevent this 'brain drain' considering the shortage of job opportunities for Ph.D graduates in India is leading to students going abroad in their search for job?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF EDUCATION  
(Dr. SUBHAS SARKAR)

(a) to (e): The Ministry of Education is carrying out recruitment of faculty in mission mode in the Centrally funded Higher Educational Institutions. 1659 faculty recruitments have been done in the Indian Institutes of Technology (IITs), 1731 in the National Institutes of Technology (NITs) and 51 in the Indian Institutes of Science Education and Research (IISERs).

The government has taken several steps to increase opportunities for Ph.D. scholars. The Department of Science and Technology has informed that as on date, as many as 100 Ph.D. holders receive the Post-Doctoral Fellowships (PDFs) in Science and Engineering in the country. The Science and Engineering Research Board (SERB) has recently taken a decision to increase the number of PDFs. In addition, the SERB-Ramanujan Fellowship, SERB-Ramalingaswami re-entry Fellowship and SERB-Visiting Advanced Joint Research Faculty Scheme (VAJRA), etc. have been devised to attract bright researchers of Indian origin to work and contribute to Science Technology and Innovation ecosystem in India.

The Government has also sanctioned establishment of Research Parks at IITs - Madras, Bombay, Kharagpur, Kanpur, Delhi, Guwahati, Hyderabad, Gandhinagar and IISc Bangalore to augment the research ecosystem in the country to enable the students to pursue their Research and Development (R&D) interests in India, through innovative research.

Majority of students in IISERs pursue post-doc studies after completion of Ph.D. Institutes have dedicated Career Development and Placement Cells to foster industry, academic linkages which could help in placement opportunities. Some of the IISERs have setup Innovation and Incubation Centre for Entrepreneurship (IICE) to promote entrepreneurship among students and faculty by initiating incubation centre for start-ups. IISERs also recruit Ph.D. graduates as faculty members, postdoctoral fellows, research assistants, technical assistants etc as per the available vacancy positions and requirements. Apart from faculty positions, Ph.D. students also work on research and development projects in many higher educational institutions/ companies/ industries in various domains like pharmaceuticals, biotechnology, energy etc. Ph.D. holders may also apply for opportunities in R&D organisations of the Government of India and private organisations to have a better opportunity in their career.

\*\*\*\*\*