

Research Scholar Program

Academic Alliances

Rapid technological advancement has spurred the need for research talent in India. This calls for quality research activities in areas such as computer engineering and science, information systems and technology, and software engineering. Enabling this, gives an impetus to the overall development of the technology landscape.

To address these requirements, we, at Tata Consultancy Services (TCS), have devised the TCS Research Scholar Program to improve the research talent base in the country. We facilitate knowledge exchange between research scholars and qualified researchers from TCS during the scholarship tenure. Our Research Scholar Program thus promotes development and innovation to contribute towards boosting the country's technology landscape.

Overview

Good quality PhD research requires a scholar to present the work at reputed international conferences, but involves various expenses such as travel, conference registration, and boarding costs.

The scholarship received by the student may not be enough to sustain the expenses. Besides financial aid, research scholars and academic guides also seek exposure to the real-world data and situations to tailor the research to applicable and relevant theories.

In addition, accessibility to world-class lab infrastructure and interaction opportunities with lab scientists, helps doctoral candidates better understand the area of research.

Our Research Scholar Program seamlessly addresses these needs. Our program encourages a continuous flow of ideas between research scholars and TCS researchers to help highlight real-world scenarios.

Our program grants financial aid, infrastructure support, and research-based interactive opportunities depending on credibility pertaining to candidature, institutes, and academic research guides. Further, this scheme provides financial aid to scholars to attend national and international conferences during their tenure of research. In addition to this, we aim to help both the scholar and the institute by providing a one-time contingency grant of Rs. 1 Lakh to the institute for every student enrolled in this program. This will help address some of the financial problems faced by the scholar and in-turn motivate them.

Benefits

We, at TCS, understand the importance of helping in the research process and to increase the talent base of researchers in India. In order to facilitate this, our Research Scholar Program offers the following benefits:

- An attractive scholarship for selected students for a period of 4 years;
- Opportunities to interact with TCS researchers to understand real-world needs. This may help tailor the research towards more applicable theories and results;
- Funding the participation of the student to an international conference abroad, to present the research work to world-class scientists. This includes the Travel, Registration and Stay support for the student in order to present the research work;
- Travel, Registration and Stay support for the student's guide to present the research work to peers in one international conference held outside India;
- Funding for the student to present research work in two national/ international conferences held in India;
- A one-time contingency grant of Rs 1 lakh to the institute for every student enrolled through our scheme. This money can be used for various incidental expenses;
- Exposure to the complexities of real-world data and situations.

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The TCS Advantage

We at TCS leverage our ability to aid research students in university PhD programs in India in the area of computer science by providing industrial exposure, real world scenario and mentorship by eminent TCS researchers. Further, we add value to the research landscape through:

- **Knowledge exchange and Mentoring.** Our Program enables research scholars and participating institutes to interact with practitioners and TCS researchers and to conduct research-related activities with inputs about real-world applications from of our scientists.
- **Opportunity to attend conferences.** Our Scholar Program helps candidates participate in various national and international conferences. These opportunities enable knowledge sharing between research scholars and world-class experts, thereby improving the technology proficiency of participating candidates.
- **Impact-sustaining and quality research.** We facilitate research for all the areas under computer science. Mentioned are a few:
 - Wearable Computing
 - Secure Multi-Party Computation
 - Machine Translation and Machine Learning
 - Cooperative control of multiple mobile robots
 - Intrusion Detection Techniques
 - Text Mining and Social Network Analysis
 - Scalable Video Streaming over Internet
 - Security and Reliability in Cloud
 - Self-Healing Networks
 - Biologically Inspired Solutions for Security in Online Social Networks
 - Computational analysis on phylogeny and ancestral genome ordering
 - Sparse Coding for Computer Vision
 - Secure Trust Management System for Wireless Sensor

- **Participating institutes:** Scholars from institutes such as Indian Institute of Technology Indian Institute of Technology (Kanpur, Bombay, Delhi, Kharagpur, Madras, Gandhinagar, Patna, Indore, Hyderabad and Guwahati), Indian Institute of Science- Bangalore, BITS Pilani, IIT (Hyderabad, Allahabad, Delhi), Jadavpur University, NIT- (Warangal & Tiruchirappalli), Thapar University, Chennai Mathematical Institute, IITB- Monash Research Academy, DA-IICT- Gandhinagar, Thiagarajar College of Engineering- Madurai, Anna University, PSG College Coimbatore, Sastra University, Calcutta University, Amrita University and Tata Institute of Fundamental Research and many more premier institutes enroll in this scholarship program.

Contact

To know more about TCS Research Scholar Program, contact us at tcs.rsp@tcs.com

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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