TCS Research Scholar Program

February 11, 2013
TCS Research Scholar Program

AIM
Enhance our nation’s talent base in doing research in Computing Sciences

Focus & Scope

- Encourage more students to pursue PhD
- Help create a pool of highly qualified faculty in India
- Encourage researching in areas of Computer Engineering, Computer Science, Information Systems, Information Technology and Software Engineering.
  - (China has 3000 + Students getting PhD per annum in comparison to 40+ in India -- *Data Courtesy : 2007 Forbes*)
- Provide an attractive environment for both the student and Institute to do research in Computing Sciences
Benefits to Scholars, Guides and Institutions

- TCS will sponsor selected candidates for a maximum of four years. Successful candidates will be named TCS Research Scholars.

- TCS will provide a stipend of Rs. 23,000 pm for the first two years and Rs. 25,000 pm for the next two years.

- TCS will support Scholar’s participation in one International refereed Conference, outside India, and two in India, provided the scholar is an author of a paper based on his research.

- TCS will provide support to Scholar’s Guide’s participation in one International refereed Conference, outside India, provided guide and scholar are authors.

- TCS will award Rs 1 Lakh contingency grant to the institute for every student enrolled.

- TCS will encourage Research Scholars to visit & Interact with TCS Innovation Labs; participate in TACTiCS and other academic symposia.
Fresh PhD student admissions as well as those with 1-year into PhD. The student should have first class education career right from SSC.

Students have to be registered as full-time students in the institute/college where the PhD registration is sought.

Institutes should select the students. TCS reserves the right to admit some or none. TCS reserves the right to conduct interview of a student, if it deems it necessary.

Scheme is open in the following broad areas of study only: Computer Engineering, Computer Science, Information Systems, Information Technology, and Software Engineering.

The Institute will intimate TCS on the date of filling of any patent related to any invention by the TCS Research Scholar under this programme.
The Institute is free to publish any work developed by the TCS Research Scholar provided it sends TCS a written intimation along with the work that will be published 30 days prior to such publication.

The fellowship may be taken in addition to the PhD scholarship that the student receives from other sources, provided that there is no violation of rules.

Applications have to be routed via the Institute, and are considered twice a year – in July and in January.

Key elements for selection: Candidate’s credentials, Institute’s credentials for the selected field of study, TCS’ interest in the selected field of study, Academic Research Guide’s credentials.
100 Research Scholars across 29 Institutes in India - Since July 2010
Presentations by Scholars at International Conferences

**Lalan Kumar - IIT Kanpur**

"MUSIC-Group Delay Based Methods for Robust DOA Estimation using Shrinkage Estimators"

at SAM-2012 Stevens Institute of Technology, Hoboken, New Jersey USA, Source

**Naveen Kumar - IIT Kanpur**

"WR based Semi-Blind Channel Estimation for Frequency-Selective MIMO MC-CDMA Systems"

at IEEE

**V Lalitha - IISc Bangalore**

"Optimal Linear Codes with a Local-Error-Correction Property"

at 2012 International Symposium on Information Theory, IEEE at Cambridge USA
Presentations by Scholars at International Conferences (Contd...)

Naveen Kumar - IIT Kanpur

"Semi-Definite Programming (SDP) Relaxation Based Semi-Blind Channel Estimation for Frequency-Selective MIMO MC-CDMA Systems"
at 2012 International Conference on Signal Processing and Communications conference at Indian Institute of Science, Bangalore on 22-25 July 2012

Preeti Malakar - IISc Blr

"A Divide and Conquer Strategy for Scaling Weather Simulations with Multiple Regions of Int"
at ACM/IEEE International Conference, Salt Lake City USA

Jyoti Srivastava - IIIT Allahabad

"Segmenting long Sentence Pairs to Improve Word Alignment in English-Hindi Parallel Corpora"
at 8th International Conference on Natural Language Processing ay Kanazawa, Japan
Thank You