ACM India Survey on PhD Production in India for Computer Science and IT
2013 – 2014

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The purpose of this study is to collect reasonably reliable data on PhD production in CS in India, and then use it to identify useful trends. This exercise was motivated by the Taulbee report in the US, and Dr Gautam Shroff, Vice President and Chief Scientist, Tata Consultancy Services has been leading this year’s survey. Based on the inputs and experience from the survey conducted in 2011 and 2012, the survey and report for academic year 2013-14 has been incorporated.

Institutes Included
Last year, the study attempted to include all institutions which have a PhD program in CS/IT. A list of 2507 institutes from all over India was obtained from AICTE. According to the data available on the websites, of these institutes, 73 institutes stated that they have a PhD in CS or IT. We added to these, other institutions (IITs, NITs, etc.) which are known to be granting PhDs in computer science – inputs for this was taken from various researchers and faculty and from the previous study. Additional institutes were obtained from the partner institutes to TCS Research Scholar Program. This gave a total of 146 institutes which claims to have a PhD program and which could be included in this study. This list of institutions is in Appendix H.

Data Collection
An online form was created, and sent to the Head of Department (CSE/IT) and the Director of the institutes. The form asked for information on: the number of PhD faculty, number of non-PhD faculty, total number of PhD students enrolled and the total number of PhDs graduated last year who got their degree. The form also asked for the stipend that was paid to the PhD students and the major problems that the institutes face with regard to the PhD programme.

Reminders were sent, and the institutions were informed that if they failed to respond, the data of students pursuing PhD from those institutes cannot be captured.

We got responses from 39 institutes through online survey. We assume that the other institutions (i.e. which did not respond and for which we could not find relevant data) don’t have an active PhD program, or if they do, it is too small to be of any significant impact.
For this year’s report, we have grouped the institutions as follows:

- **Group 1**: Institutions which provided the data about number of faculty, PhDs enrolled, and PhDs awarded. (39)
- **Group 2**: Institutes which provided data last time but did not do so for this year’s report. (10)
- **Group 3**: Institutions which did not submit the filled form, but the number of faculty, and the total number of PhDs enrolled was available on their website. (4)
- **Group 4**: Institutions which did not submit the form and we could not find information about the PhD students enrolled on their websites, but obtained information about the number of faculty. (7)

For group 2, we took the data from last year’s study – assuming that it would not have changed significantly this year.

**Analysis**

**PhD Production**

The number of students who completed their PhD from August 2013 to July 2014

- **Group 1 institutes**: 140
- **Group 2 institutes (estimated)**: 49
- **Group 3 institutes (estimated)**: 21
- **Group 4 institutes (estimated)**: 24

To better understand where these PhDs are being produced, we divide the institutions in two categories: those that have 80% or more faculty with PhDs, and others. Presumably the first category represents the more research-focused institutions, while the second category is likely to be the more teaching-focused institutions. There are 21 institutions in the first category (List of these institutions and their data ids given in Appendix E), and 18 institutions in the second category (Appendix F). With this classification, we have the following for PhD production:

- **Research-focused institutes produced a total of 162 PhDs and other institutions produced 72. The total number of PhDs produced last year from all institutions is 234.**

Based on the detailed data provided by Group 1 institutions, we can say:

- **Of the total PhDs produced, 70% were male and 30% were females.**

Looking at the statistics for the number of students who are enrolled:

- **Group 1**: 1338
- **Group 2**: 399
- **Group 3**: 214
- **Group 4 Estimated**: 202

For all the institutes, the total adds up to 2153. And for group 1 and group 2 is 1737. Additionally, the total number of part time students doing PhDs in institutes belonging to Group 1 is 455 and that of Group 2 are 53.
Using this total, we can estimate the number of PhDs likely to be produced in the country in the coming years. We assume that 90% of these students will graduate over the next five years. If we expect that these graduations will be spread across 5 years with approximately uniform distribution, the number of PhDs graduating will come to around 380 per year for the coming five years. Since we know that the enrolment in PhD programs has been increasing over the past few years, we can expect the increase to be gradual. We assume that the increase in first year is x, in 2nd year is 2x… and in 5th year it is 5x. With this, we can estimate that the number of PhDs graduating will gradually increase to about 405 per year in about 5 years among all institutions, and about 325 per year from institutions in group 1 and 2.

Overall, keeping in mind the likelihood of overestimation for institutions in group 2 and 3, we can say that the PhD production in the Academic Year 2013-14 was around 234, and that PhD production is likely to grow gradually to about 350 per year in about 5 years.

Areas of Research
In this section we analyse the areas of research chosen by the students who completed their thesis in 2013-2014.

As can be seen from fig 1, the most popular area of research is Networks. Database/Information Retrieval, Software Engineering and Informatics are fields which are also popular as a research interest among PhD students. (This data is only from institutes in group 1 who filled the online form.)

![Number of Scholars Vs Research Areas](chart.png)

**Fig 1:** Area of research chosen by students who completed their PhD in 2013 - 2014
Comparing this with last year’s response, we observe an increase in interest for Software Engineering, Database/Information Retrieval and Informatics.

Employment Statistics
Based on the data provided by institutes of group 1, the most popular choice of employment after completing PhD is teaching or joining a research job in India.
Stipend/Compensation given to PhD students
Based on the data provided by 34 institutes about the stipend paid to a PhD student, we can say:

The highest salary given: Rs 30,000
The lowest salary given: Rs 8,000
Average salary a student can expect is: Rs. 16,794

Issues/Challenges faced by the PhD program
The online form had an open question for institutes to list down the issues they face with the PhD program. The response that we got can be broadly categorized into the following:

- Shortage of Faculty
- Attracting good students to pursue PhD
- Financial Support
- Lack of tie ups in the industry and other institutions
- Employment opportunities after successful completion
- Choice of Problem area for PhD

Faculty
For the 60 institutes covered in the study, the total number of faculty with PhD is 912 and the average faulty with PhD in the CSE/IT department of an institute is 15.

References

Acknowledgements
I would like to thank Sachin Parkhi for his help in conducting the study and preparing the report. I would also like to thank all the institutions who provided data by either filling the form or by sending data over email.
## A. Group 1 institutes: Provided Data

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<th>Name of the Institution</th>
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