

1116-62-1663 **Paul Raff*** (paraff@microsoft.com), 7921 146th Ave NE, Redmond, WA 98052. *Preparing Mathematicians for Big Data Careers: An Industry's Point of View.*

While the Big Data industry is growing rapidly, it is still in its early stages as it relates to a common understanding and identification of the complete skillset needed to be a top-notch data scientist in the industry. While being a mathematics major provides a great foundation for what's required to be a good data scientist, we discuss what else is necessary. These include the following:

- Increased Emphasis on Scientific Computing
- Connections to Industry
- Realistic Big Data Analysis Exercises
- Data Science, not Data Engineering
- A Nudge Towards Graduate School

Given that there is still a large amount of unfulfilled demand for data scientists in the industry, there is a great opportunity for math departments to better train those students that are aiming for Big Data careers. This talk will provide details from the perspective of a 20-person (and growing) team of data scientists that has been steadily hiring for the past several years. (Received September 21, 2015)