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## Tools and Techniques - Lecture 1

*Monday, August 25, 2014 2:00 PM (1 hour)*

Introduction to the Track; Tools You Can Use We discuss some of the characteristics of software projects for high energy physics, and some of the issues that arise when people want to contribute to them. This forms the framework for the Software Technologies Track. We then discuss several categories of tools & techniques you can use to make yourself more productive and effective. Continuous testing and documentation has proven to be important in producing high quality work, but it's often difficult to do; we discuss some available approaches. Many problems require specific tools and techniques to solve them effectively: We discuss the examples of performance tuning and memory access problems. Throughout, we discuss software engineering from the perspective of the individual contributor, both as a formal process and how it actually effects what you do.

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**Session Classification:** Data Analysis