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Chicago, IL 60607. *The Professional Master's Degree in Graduate Education.*

Dozens of mathematics departments are offering Professional Master's Degrees in a wide range of fields— applied mathematics, industrial mathematics, financial mathematics, scientific computation, bioinformatics, statistics, mathematics teaching. These programs benefit students by preparing them for positions in business and industry, government, and K-12 schools and two-year colleges. But they also extend mathematicians' knowledge of mathematical applications in other disciplines and beyond the academic setting. Drawing on the discussions from the NSF funded workshops at New York University in November, 1998 and at Arizona State University in November, 1999, and a national survey of mathematics departments, this talk will present an overview of the issues in planning and running a professional master's degree program, and the role of professional master's programs in graduate study in mathematics. (Received September 21, 2000)