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**Scott T Chapman\*** ([scott.chapman@shsu.edu](mailto:scott.chapman@shsu.edu)), Sam Houston State University, Department of Mathematics and Statistics, Box 2206, Huntsville, TX 77341. *REU projects involving non-unique factorization in integral domains and monoids: Past, Present, and Future*. Preliminary report.

Since the late 1990's, REU projects involving the theory of non-unique factorizations in integral domains and monoids have helped introduce dozens of undergraduate students to the world of mathematical research. In this talk, I will outline the background material necessary for a student to begin such a project. Several results from past projects will be highlighted, some of which were recently completed. I will close with a list of potential problems appropriate for future REU students. (Received September 07, 2016)