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## Planning Grant: Engineering Research Center for Materials for Agriculture Resource Imaging Analytics at High Resolution (MARIAH)

Keith Roper

*Utah State University, [keith.roper@usu.edu](mailto:keith.roper@usu.edu)*

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## **Data Management Plan**

Data collected by the TNEWS REU program will address progress toward learning objectives of the students as well as end of summer final research documents and presentations. These documents, including all application materials, will be maintained by the Biological Engineering Department as they are protected under student privacy policies and procedures at Utah State University. Access to the records will be limited to only qualified faculty and staff through secure storage of the written and electronic documents. This local storage is secured by the files being kept in locked rooms accessible only to program staff, with electronic documents in password protected files.

During the proposed award period, the project is expected to create numerical and experimental data related to the synthesis, fabrication, analysis, and modeling of materials, devices and systems relevant to nanomanufacturing. Each participant's working research documents and data will be maintained by the faculty advisor hosting the participant per his or her standard operating procedures for the laboratory. Each faculty advisor will be instructed to maintain computational and experimental data in accordance with university standards. Adherence to these standards will be evaluated as part of the post-summer assessment.

Dissemination of research data produced by each participant in conference papers, presentations and peer-reviewed articles will be encouraged through mentorship via the respective faculty advisors. As Associate Editor for IEEE Transactions in Nanotechnology, the PI will encourage submission of REU research outcomes to this and other archive-quality journals that focus on nanoscale materials, devices, processes and systems. Publication of REU research outcomes will be evaluated as part of the post-summer assessment. This will be among the criteria considered when selecting faculty advisors for succeeding REU summers.

Aggregation of individual student information into such things as distributions for analysis may be reported in such venues as annual reports or scholarly publications, as long as the aggregation is such that no individual can be identified in the distribution. All records will be archived for at least five years beyond the end of the grant period.