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Collaborative Research: Impacts of Hard/Soft Skills on STEM Workforce Trajectories

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Data Management Plan

ROLES AND RESPONSIBILITIES

PI Feldon will oversee secure collection, cleaning, and storage of survey data. PI Owen-Smith will oversee collection and curation of IRIS/UMETRICS data. IRIS Center staff with appropriate clearances will manage data linking within the secure virtual data enclave (VDE) and work within the Federal Statistical Research Data Center (FSRDC). These full-time staff will likewise curate, document, and make available, subject to responsible privacy and confidentiality restrictions, an annual research data release. The dataset will include de-identified IRIS data, public elements of external datasets (e.g., grants and publications), and crosswalk tables to match particular data elements across IRIS data and external datasets.

TYPES OF DATA OR PRODUCTS

Survey responses are the only form of data to be collected directly from individual participants. UMETRICS data is gathered through established administrative processes, and linkages to Census data are accomplished though processes established with that agency.

DATA STORAGE, PRESERVATION, AND SHARING

Upon completion of the project, de-identified survey data and crosswalks for linkage to IRIS UMETRICS administrative data will be included in an annual data release by the Institute for Research on Innovation and Science (IRIS). These data will be accessible for further research use and replication under an established Data Use Agreement through a virtual data enclave. Associated code and meta data documentation will also be made available through a git implementation in the IRIS virtual data enclave. Public use versions of relevant code will be archived on GitHub. Academic publications as well as international conference presentations will engage a wider audience with this project's tools, indicators, and disambiguated data and motivate them to validate, reuse, and improve tools and outcomes of this project. Public use (privacy proofed) documentation of the IRIS data release including the survey supplement and linkage will also archived with the Inter-university Consortium for Political and Social Research (ICPSR) with DOIs assigned. Inclusion in the ICPSR repository also means that project outputs will be discoverable through large scale metadata platforms such as the Association of Research Libraries/Center for Open Science SHARE initiative.

RESTRICTIONS ON DATA OR PRODUCT STORAGE, ACCESS, PRESERVATION, OR SHARING

Full de-identified data will be available to researchers who apply for and receive access to IRIS's virtual data enclave. Public use data will be available one year after completion of the project.

DATA FORMATS

Data will be stored as in digital format as tables.

PERIOD OF DATA RETENTION

Data will be retained for a period of 10 years following the completion of the project. As it will exist within the existing IRIS infrastructure, there will be no specific cost.

THIRD-PARTY PRESERVATION

Public use versions of relevant code will be archived on GitHub. Public use (privacy proofed) documentation of the IRIS data release including the survey supplement and linkage will also archived with the Inter-university Consortium for Political and Social Research (ICPSR) with DOIs assigned. Inclusion in the ICPSR repository also means that project outputs will be discoverable through large scale metadata platforms such as the Association of Research Libraries/Center for Open Science SHARE initiative.