



Applied Analytics and Data Infrastructure Catalyst Program

Available Supports — FY 2024-25

Contact us to discuss supports that may not appear on this list.

Applied Analytics

1. Analysis

- Performing descriptive and inferential analyses.
 - *Analytic methods may include but are not limited to: general/generalized linear modeling, mixed modeling (i.e., multilevel or hierarchical linear modeling), latent variable modeling (e.g., structural equation modeling, item response theory, and factor analysis), and mediation and moderation analysis.*
- Using complex survey analysis methods to analyze data from large-scale national and international survey studies (e.g., ECLS, NAEP, PISA).
- Conducting qualitative data analysis.
- Guiding the integration procedures for mixed methods studies.

2. Measurement Services

- Evaluating existing psychometric data to appraise the degree of reliability and validity evidence for existing measure(s).
- Psychometric analyses (e.g., factor analysis, reliability analysis) for a measure.
- Supporting best practices for measure development in areas such as item writing, general design and administration.
- Developing appropriate qualitative data collection protocols for the study design.

3. Dissemination

- Creating appropriate visual data displays.
- Collaborating on the preparation of manuscripts.

Data Infrastructure

1. Database Development

- Creating Qualtrics surveys for online data collection.
- Building customized data systems for individual projects, including survey and data entry portals, and custom data reports for analytic use.
- Integration of various software (e.g., Qualtrics) into customized project websites.
- Ensure methods for secure data transfer from field-based research sites.

2. Data Management

- Data cleaning (e.g., flagging errant data patterns, naming variables, merging datasets), creating composite variables (scoring measures).
- Best practices data/statistical software (e.g., SPSS, SAS, *Mplus*, R) training for GRAs and project staff.

3. Data Curation Consultation

Data curation is the ongoing processing and maintenance of data throughout its life cycle to ensure data quality and long-term accessibility, sharing and preservation. Individual consultations are scheduled as a series of one-hour virtual meetings and thus intended for giving feedback; sharing resources related to research methods, applied analytics, data infrastructure, data preparation for depositing to a repository (e.g., NIH National Data Archive); or providing advice on registering a study (e.g., clinicaltrials.gov, REES). You will have a chance to share any relevant documents in advance. You will meet with members of our team. Following the consultation, we will provide you with a summary of the consultation and a list of resources specific to your research.

Note: Data curation consultations do not include proposal development. Please contact Julie Gillmor at julie.gillmor@unl.edu for information regarding proposal development.

Supports are provided on an hourly basis. Service center rates are determined annually by the University of Nebraska–Lincoln.

Current rates:

- **Research Faculty:** \$85/hour
- **Research Staff:** \$59 - \$74/hour
- **Graduate Research Assistants:** \$49/hour