

Contract for RTTT Development of Preliminary Files/Data Bases, Data Management Protocol, Student Growth Models & Statistical Analyses

Services and Deliverables Spring 2011	Hours	Cost
Project 1: Preliminary Files Creation: Two-year Teacher Category Analysis		
Create teacher data files for 2010 & 2011, matched to courses and matched student data sets		
Conduct descriptive statistical analysis and create categories or groupings as the unit of analysis; review with IIS committee		
Designate coding and develop error reports data verification procedures and automated data correction mechanisms		
Create SPSS syntax and programming to generate teacher-course-student matched files statistical analyses; document protocol for future replication		
Conduct validation analysis and develop technical specifications for problem resolution		
Generate preliminary reports for district review; Present reports to committee for input; revise as necessary		
Cost Project 1	93	\$3,534.00
Project 2: Two-year Principal Category Analysis		
Same as steps above except for principals and for additional matches to teacher and students, and other data elements such as subject area and grade level.		
Cost Project 2	102	\$3,876.00
Project 3: Creation of 4-year historical student data sets		
Establish criteria for student inclusion , identify data elements and appropriate coding for subsequent analysis		
Develop program syntax to merge student records with test records from 07-08 to 10-11; produce error reports to identify matching errors & missing data		
Analyze impact on errors on data quality and propose solutions		
Establish data verification needs and develop syntax and written protocol for automated correction procedures		
Cost Project 3	40	\$1,520.00

Services and Deliverables Spring 2011	Hours	Cost
Project 4: Develop 2-year student growth model		
Research feasible statistical models; examine modifications permitted by DOE		
Create 4 linked data set files: teacher/student and principal/teacher each for reading and math; determine parameters for inclusion in analysis		
Produce error reports to identify matching errors & missing data; Analyze impact on data quality and propose solutions		
Conduct statistical analyses based on the state growth model and the district-modified model to generate (1) student/teacher reading data, (2) student/teacher math data, and (3) principal/teacher data		
Examine differences in outcomes for teacher data and for principal data within and across models and ascertain impact		
Conduct exploratory analysis to examine the interactive effects of cell size, school characteristics, student or teacher variables, subject area, grade level, etc. on outcome data		
Study findings to identify possible bias due to variance based on the above-referenced variables and propose modifications to the model specifications		
Conduct an impact study to determine the implications of RTTT implementation		
Cost project 4	110	\$4,180.00
Project 5: Design the annual results verification and reporting mechanism and report dissemination process		
Create a Visual Studio form for generating biannual class student lists for teacher/principal verification and confirmation		
Develop non-technical informational materials for teachers and stakeholders that explain the growth model calculations and its applications for RTTT		
Create a Visual Studio report for Human Resources		
Create a Visual Studio report that allows teachers to view their personal calculations		
Design/develop a system for report dissemination to teachers and principals		
Cost Project 5	55	\$2,090.00
Total Contract Cost		\$15,200.00