

Master Science Teacher Curriculum—5yrs

- MST I**
Composting
Water quality
Leadership workshop
70 hours
- MST II**
Follow up
Transfer
60 hours
- MST III**
Biotech
Immersion
70 hours
- MST IV**
Follow up
Transfer
60 hours



- MST V**
Energy
Transfer
30 hours
- MST VI**
Scientific
Research
70 hours
- MST VII**
Action
Research
Focused
on Special
Needs
Students
60 hours
- MST VIII**
Portfolio
Cooperating
Teacher
Course
60 hours

Project Evaluation

Evaluation Question	Data Collection Method
What percent of teachers are participating in the courses and other activities required for certification and program completion?	Attendance records, other documentation of participation
How can activities be changed/improved to better meet teacher needs as the project moves forward?	Post activity reaction forms Teacher focus groups
To what extent has teachers' content and pedagogical knowledge improved?	Pre/post knowledge assessment Assessment of teachers' final project (applied work or basic research skills)
To what extent are teachers transferring the knowledge gained from program participation to their classrooms?	K-12 teachers' educational practices survey Classroom observation (RTOP) Teacher focus groups Student survey
To what extent are teachers participating as leaders?	Leadership Survey (Social Network Analysis)
How does the academic achievement of the students in schools of participating teachers compare with the students in (matched) schools of non-participating teachers?	Puerto Rican Test of Academic Achievement

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PUERTO RICO MASTER SCIENCE TEACHER PROGRAM (PRMSTP)



UNIVERSITY OF PUERTO RICO



Sponsored by the National Science Foundation

Puerto Rico Master Science Teacher Program



The Puerto Rico Master Science Teacher is a five year program designed to prepare and certify eight 7-12th grade science teachers, teaching in high-need school districts, as Master Science Teachers.

These Fellows will serve as role models of exemplary teaching of sciences, experts in content knowledge, and leaders among their peers to promote improvements in students' academic achievement.



Project's Logic Model

