

Longwood CSD and William Floyd UFSD Smart Start RFP

Program Title: Longwood and William Floyd Computer Science for All (LCI-CSFor ALL)
 PD Focus Area: Computer Science (CS)
 Model of Program: Cohort
 Scale of the Program: Focused
 Target Populations: 50 teachers annually that have not implemented CS from 13 schools

Section A: Overview

Summary: The Longwood and William Floyd Computer Science For All Consortium (LCI-CSForALL) consists of a consortium of two (2) Suffolk County school districts with a combined enrollment of 18,067 PK-12 students in 13 schools, in collaboration with Mouse as the Professional Development and Support Provider. The focus area for the project is **computer science** and it will use a **cohort model** with additional support for administrators through the Strategic CSForALL Resource & Implementation Planning Tool (SCRIPT) workshop. Mouse support program in consultation with the Long Island Regional Economic Development Council that will result in a full adoption of computer science in a way that Longwood and William Floyd agree is sustainable. The student focus of the LCI-CSForALL Consortium is on **increasing participation among underrepresented groups** in computer science education, including women, black, Latin, Native American students, English Language Learners, and low-income students. Mouse has 22 years of experience working with schools and students and over 5 years of experience advising and providing training to the NYC Department of Education and several BOCES regions on how to build computer science pathways with a focus on broadening participation among underrepresented youth.

School District	PK-12 Enrollment	K-8 Enrollment	K-8 Gender (% female)	K-8 Race (% Minority)*	K-8 Economically Disadvantaged (%)	K-8 ELL (%)	K-8 Students w/ Disabilities (%)
Longwood	9383	6480	49.1%	50.3%	53.5%	6.7%	16.3%
William Floyd	8837	6056	49%	60%	63%	7%	15%
Total	1822	12536					
Average	9110	6268	49.05%	55.15%	58.25%	6.85%	15.65%

*Traditionally underrepresented minorities include: American Indian / Alaska Native, Black, Hispanic, and Multiracial

Description of Consortium Member Districts: The Longwood and William Floyd Consortium represents an area of Long Island that varies widely between rural 53 square mile Longwood to the highly diverse suburban density of William Floyd. These districts have collaborated on prior initiatives because of their proximity and similar needs, with both districts identified by New York State as Targeted Academic Achievement Districts in need of extra support and funding to improve academics. William Floyd, the high needs district in this proposal, is highly diverse, with 60% of students identifying as black, Hispanic/Latin, or American Indian, 63% economically disadvantaged students, 7% English Language Learners, and 15% of students with disabilities. As a result of a large Spanish speaking population, William Floyd offers bilingual classes in elementary and extensive services for English Language Learners. Longwood is also a diverse rural area, with 50.3% economically disadvantaged students, 6.7% English Language Learners, and 16.3% students with disabilities. These districts are very active in seeking out new opportunities for underserved students and targeting improvement areas, and both are enthusiastic about this proposal to train over 300 computer science teachers over 5 years, especially in service of their identified academic improvement goals.

Description of Proposed Program: Based on Mouse's experiences and knowledge of computer science education policy, industry, and pedagogy, the Longwood and William Floyd consortium intends to train 50 teachers and 16 administrators annually in grade bands of K-2, 3-5, and 6-8. Training will begin with five summer professional development days at the

beginning of each summer in July followed by four quarterly days during the school year in October, December, February, and April. Support structures such as **collaborative planning, curriculum mapping**, and mentoring will be embedded throughout in-person professional development and teachers will also have access to **online collaborative spaces** to share challenges and successes or ask questions to Mouse facilitators. Team of administrators from Longwood and William Floyd districts will create district and school computer science plans during a one-day workshop each summer. Mouse's proposed professional development and support workshops are customized for Longwood and William Floyd but based on research-based curricula designed to engage diverse student populations. Grade K-8 curricula include Scratch Junior, Hello Ruby, Computer Science and Me, Scratch Creative Computing, and Code.org CS Fundamentals and CS Discoveries.

Proposed Consortium Goals: Longwood, William Floyd, and Mouse will collaborate to recruit, train, and support teachers with a focus on high-needs schools with little or no technology education or computer science (CS) instruction. The goals of the proposed program are:

1. Increase the number of trained, high quality K-8 CS teachers across all district schools.
2. Increase geographic, racial, and socioeconomic diversity in CS students.
3. Engage CS educators in a supportive and sustained professional learning community.
4. Create pathways for underserved students from K-8 CS education programs that build student interest in and knowledge about higher education, job training, and workforce opportunities in high growth industries identified by LIREDC.