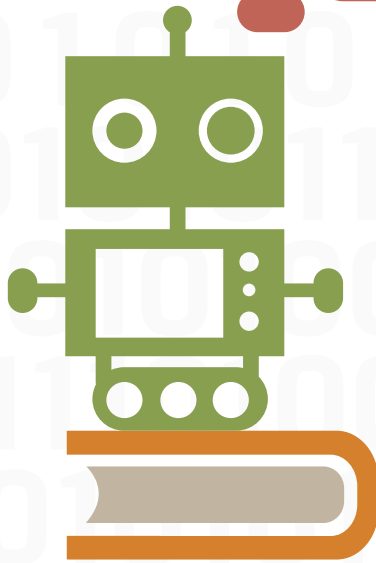


BUILDING AN OPERATING SYSTEM FOR Computer Science Education

<http://cemse.uchicago.edu/computerscience/OS4CS/>



The "**Building an Operating System for Computer Science**" (OS4CS) study was designed as a collaborative research and communication effort to establish a more comprehensive understanding of our nation's current high school computer science (CS) teaching population, the support they have, and contexts in which they teach.

5 strands of the OS4CS study:

The **Landscape Study** focuses on describing the current landscape of professional development available to high school CS teachers. This study provides information about who, when, and where professional development is happening, what that professional development entails, and who is participating in it.

The **Teacher Capacity Study** complements the PD Landscape Study by providing information about the CS teacher population that might participate in professional development. The Teacher Capacity Study describes CS teachers - who they are, where they are, how they teach, and the conditions that affect their teaching.

Stories from the Field offers four different examples of how advocates for CS education have made progress in their communities.

CS in Schools complements the first two by providing an in-depth description of CS education in schools using the voices of teachers and their school administrators.

The **Design Studio** was a face-to-face workshop conducted with professional development providers to examine the findings from the Landscape Study and use them to improve existing professional development offerings for CS teachers.

5 CHALLENGES

There is no shared understanding of what computer science is.

More comprehensive, quality, instructional resources are needed.

Computer science is not prioritized in schools.

There is a need for more computer science teachers.

Computer science teachers are isolated.



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