

ABSTRACT

This document contains the 2009 Year-End Reports by the professional staff of the Microfabrication and the new Marvell Nanofabrication Laboratory. Together, these reports reflect the wide range of support staff provides to research campus wide and to instructional laboratories in EECS.

Preparation for the move from the Microlab to the Nanolab took up a good part of the past year. Operations in the Microlab, however, remained up and running without any changes, until December, when the furnances had to be shut down because of a duct fire.

This event caused a major move schedule change and a slow-down in processing for many projects. Equipment migration to the new lab began in late in the year.

Activities of Microlab (ML) and nanolab (MNL) operations support staff, described in the sections Operations, Facilities, Administration, Computers, and Process/Baseline include 25 career employees and 8 undergraduate student assistants. The Machine Shop operates with 4 staff as an independent recharge unit. The Microlab supports 0.35 μm process technology on 6" (150 mm) silicon wafers. Equipment is also available for processing 4" and partial wafers.

The Micro/Nanolab had an average monthly membership of 257 in 2009; participating PIs: 72. The Machine Shop completed 338 jobs from 56 PIs. The Berkeley Microlab Affiliates program (BMLA) comprises 19 industrial members. Detailed information can be found at:

www.microlab.Berkeley.edu and <http://nanolab.berkeley.edu/>.

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