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Physicist Lucille Streets is evaluating aircraft oxygen regulators at the National Bureau of Standards in 1949. The regulators supplied an oxygen-air mixture in response to a pilot's inhalation, and automatically adjusted the proportion of the gas mixture with changes in altitude. The evaluation equipment included a low pressure chamber, an altimeter, a flowmeter, and a magnetic oxygen concentration meter. To see more historic NIST images visit www.nist.gov/digitalarchives.

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National Bureau of Standards (NBS) computer programmer Ethel Marden is seated at the control console of the SEAC (Standards Electronic Automatic Computer) in 1959. The SEAC was an NBS-designed first-generation digital computer that became operational in 1950. Marden used SEAC to test HAYSTAG, a program she wrote for the U.S. Patent Office that automated searches of chemistry literature.

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