Rex was appointed as Mobiology Lecturer at the College in 194 and Agricultural Biologist in 194, then put in charge of the enology Course in 194. In 195, Rex was granted two years leave of absence as Me Industry Consultant in Cyprus. After a distinguished association with Roseworthy Agricultural College lasting 27 years, Rex tookup an appointment as Botanist in the then State Erbarium, at the Adelaide Botanic Garden ABG)in 1962.

As a botanist, Rex was granted three months overseas leave, this time to visit hdia to help overcome viticultural problems, and during this time he visited herbaria and botanic gardens, collecting plant specimens and seeds for the ABG. During his 15 years at the ABG, Rex made numerous plant collecting trips and field excursions, including to the linders Ranges, the Strekeck lack and to later Australia.

Rex was appointed to the new position of Superintendent of the ABG in 1965to manage the general garden maintenance, advisory work the seed exchange program, the trainee scheme and to liaise between the ABG and the Bological Gardens. He also lectured in botany for The biversity of Adelaide, the Bological the Adult Elucation Branch of the Elucation Department, as well as being a regular contributor to the ABC Weries, "In Your Garden."

Rex liaised with the Police Department by collecting botanical material and giving evidence based on these data in criminal trials, and in 1969 presented a paper on "Plant Eology and its application to the Grensic Sciences" at the first Grensic Science Conference in Whourne. This was to marka career change for Rex