Design of a High Field Strength Wiggler, C.H. CHANG, L.H. CHANG, H.H. CHEN, T.C. FAN, C.S. HWANGH, SRRC - For expanding a higher the photon energy, a high field strength 2.8 Tesla wiggler was proposed to increase the critical energy to 4.19 keV in the SRRC 1.5 GeV storage ring. Considering the constraint of available space, electron lifetime and photon flux, a 1 meter long hybrid structure wiggler with a magnetic period length of 25 cm was designed for achieving field strength higher than 2.8 Tesla at minimum gap 10 mm. The field estimation and optimization of the magnet and pole were performed by using an OPERA-3D magnetostatic code. The end pole design and mechanical considerations are also presented.