The existence of a family of static spherically symmetric solutions to the Schrodinger-Newton system has been known since the late nineties. Numerical analysis strongly suggests that each solution is unique, corresponding to a number of zeroes on the half-line. The SN system can be viewed as a nonlinear perturbation of the one dimensional Hydrogen atom on the half-line. We show existence and uniqueness of static solutions for small values of the perturbation parameter via an implicit function theorem for Fredholm maps. (Received September 16, 2019)