This study aims to cover the research and development support for small and medium size enterprises (SME) in Turkey. Small and Medium size Enterprises (SMEs) have an important place in world economy in many ways. SMEs, which are the cornerstones of the economy in Turkey, are active in respects of flexibility, contribution to employment, being complementary to big businesses and being less affected from crises. Today, businesses should be in a continuous race and search for innovation to survive in current global conditions. Accordingly, SMEs, having an important role in economy, should give importance to Research and Development (R&D) activities. Inside the study, R&D tendencies in the world and Turkey and R&D subsidies for SMEs are handled.