We present some existence results about the following polyharmonic equation
\[ (-\Delta)^n u = K(x)e^{2nu} \quad \text{in} \quad \mathbb{R}^{2n}, \quad (1) \]
where \( n \geq 2 \) and \( K \neq 0 \). This equation naturally arises in conformal geometry. Let \( K \) be a given function in \( \mathbb{R}^{2n} \), one would like to find a conformal metric \( g_u = e^{2u}|dx|^2 \) such that \( K(x) \) is the \( Q \)-curvature of the new metric \( g_u \), then the problem is reduced to find solutions of (1). We are interested in solutions to (1) with logarithmic growth at infinity with non constant curvature \( K \), i.e. solutions verifying satisfying \( u(x) = O(\ln |x|) \) as \( |x| \to \infty \). Mainly we will discuss the nonpositive \( Q \)-curvature case. This is a joint work with X.Huang and D.Ye. (Received February 01, 2019)