We propose to measure elastic electron $^3\text{He}$ and $^4\text{He}$ scattering to the highest momentum transfers possible, limited by a cross section sensitivity of about $2 \times 10^{-42}$ cm$^2$/sr/MeV. The measurements will extend our knowledge of the magnetic-form factor of $^3\text{He}$ and the charge form-factor of $^4\text{He}$ down by two orders in magnitude and out in $Q^2$ possibly by a factor of two. The required incident beam energies range from 0.43 to 4.0 GeV. The scattered electrons will be detected in the Hall A High Resolution Spectrometer. A high-pressure, high-power target system of gas $^3\text{He}$ and $^4\text{He}$ with 25 cm long cells will be used. Good missing mass resolution will provide a clear separation from inelastic processes. The results are expected to play an important role in the understanding of the few-body structure at short distances and its description in terms of mesonic currents and/or quark and gluon-exchanges. We request 53 days of data taking at a current of 100$\mu$A and 7 days of checkout at low current, in a continuous two-month period or two one-month periods for each isotope.