Three-dimensional focusing of x-rays can be achieved by doubly-curved crystals through diffraction from a small laboratory source. Recently it has been demonstrated that an intense monochromatic x-ray beam can be obtained with the use of doubly-curved crystal optics. This intense focused monochromatic beam will have important applications for monochromatic micro XRF, micro XRD, focused beam TXRF and XRR. In this paper, the focusing capability of doubly curved crystals will be reviewed and application data will be presented.