The Free-Electron Laser, the world’s most-powerful tunable laser, is based on Jefferson Lab’s expertise in superconducting radiofrequency accelerators. The FEL uses electrons to produce laser light, which can be tuned to precise colors or wavelengths, providing significant advantages compared to conventional lasers. The FEL is unique in that it recovers and re-uses the remainder of the electrons’ energy using a superconducting energy-recovering linac, or ERL.