

**Table A Present capabilities at CSRF (800 MeV, 2<sup>nd</sup> generation, modest emittance, 100 mA)**

Beamline	Source	Optics	Energy Range	Energy Resolution	Flux(photon /sec)	End-station Capabilities
SGM	BM	Spherical grating: 600l/mm Funds available for 2 additional gratings	260 - 670 eV	10,000 at N K-edge (~400 eV) at slit settings of 10 $\mu$ m x 10 $\mu$ m	$\sim 10^9$ - $10^{10}$ for high to modest resolution	Photoabsorption, of solids; photoabsorption and photoionization of gases
Grass-hopper	BM	Three interchangeable gratings	21 - 1000 eV 21 - 200 eV (good resolution)	0.1 A 3,000 at 100 eV	$\sim 10^{10}$ $\sim 10^9$	Variable energy photoelectron of gases and solids, photabsorption and photoionization
DCM	BM	Double crystal InSb and quartz	1.8 - 4.3 keV 1.5- 1.85 keV	3,000 at Si K-edge (~1840 eV)	$\sim 10^{10}$	Photoabsorption of gases and solids, soft x-ray scattering

If you wish to explore possible synchrotron radiation projects, please contact the CSRF personnel (TK Sham (director), Kim Tan, and Yongfeng Hu) at the emails listed below.

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