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## Life Science at the SNS Second Target Station

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The second target station (STS) is a >\$1Billion, Department of Energy project to be constructed at Oak Ridge National Laboratories Spallation Neutron Source (SNS). The STS will provide entirely new capabilities for studying a broad range of materials with neutron scattering and support a wide variety of users. The science capabilities provided by the instrument suite at the STS will complement those of the two existing DOE Office of Science neutron scattering user facilities at ORNL, the First Target Station (FTS) of the SNS, and the High Flux Isotope Reactor (HFIR). The STS will deliver the highest peak brightness of cold neutrons globally. Advances in neutron optics, instrumentation, and detectors will enable types of experiments to become possible and new systems to be studied with neutrons. The STS instrument systems group is currently working with the neutron community to determine an initial suite of eight neutron instruments with transformative new science capabilities via an instrument selection process. This talk will provide updates on the STS project's status and the next generation of neutron life science instrumentation.

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