



<i>Project Title:</i>	<i>Large scale synthesis of silicon nanostructures for use in next-generation lithium-ion battery anodes</i>
<i>Project Short description</i>	The project will focus on large scale synthesis of silicon nanostructures. The candidate will work on metal-assisted etching of silicon and be responsible for develop and optimize the etching recipes. S/he will also collaborate with the senior researcher in the group on the fabrication of lithium-ion batteries using the silicon nanostructures synthesized. In the meantime, s/he will collaborate with the senior researcher in the group on photoelectrochemical water splitting using the fabricated silicon nanostructures.
<i>Expected Start/end date</i>	
<i>Required degree and Background knowledge of students, minimum gradepoint average, etc...</i>	Bachelor degree in chemistry or materials science and engineering or other relevant field is required. The candidate should have basic knowledge in materials chemistry/physical chemistry. The candidate should be self-motivated and have enthusiasm for work. Good communication skills are also required.

Supervisor at INL

Name:	Lifeng Liu
Position:	Staff Researcher and Group Leader
email:	lifeng.liu@inl.int