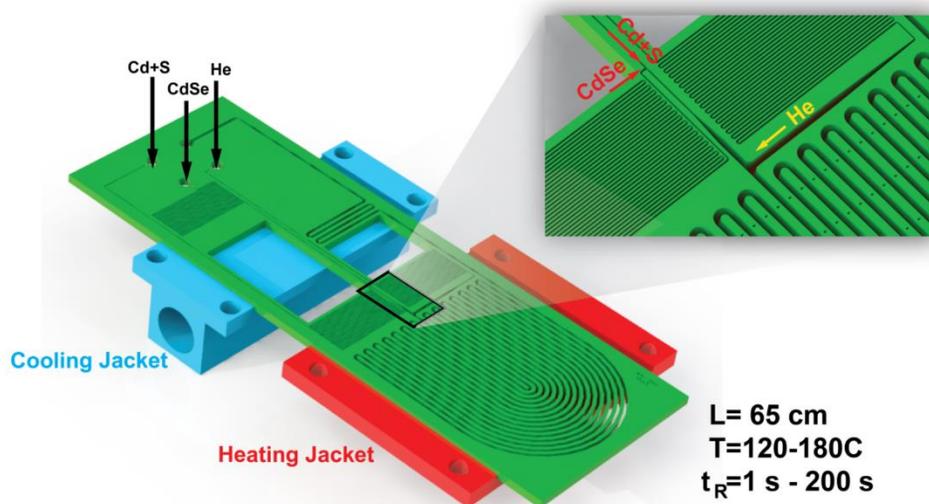


Design of Integrated Nanomaterials Factory

Our research group is developing automated microfluidic platforms for the preparation of colloidal nanomaterials that have a wide range of applications including solar cells, light emitting diodes, lasers and biological labels.

The summer research project will be focused on the development of a detailed design for an integrated desktop platform with integrated fluid delivery, fluidic interface, microfluidic device and analysis. During May and June 2015 the designs will be developed and discussed in detail with graduate students in the Guenther lab during regular meetings, as well as with the MIE machine shop. Detailed design files will be developed and component lists composed. By June 15 machining of required parts will start and components will be ordered. During July and August, all parts will be assembled and tested.



Please send your CV and (unofficial) transcripts to Prof. Axel Guenther at axel.guenther@utoronto.ca.

Qualifications:

- Previous design experience
- Interest in Engineering Design
- Proficiency in Solidworks

Supervisor: Prof. Axel Guenther
guenther@mie.utoronto.ca