Graduate students interested in applying for a Chemistry of Life Processes (CLP) Training Program Traineeship must rotate through the laboratories of two training program preceptors who hold appointments in Chemical Biological Engineering before selecting their dissertation advisor. Each rotation must be at least 4 weeks long. The goal of these rotations is to enable students develop insight into potential areas of research and to determine if a lab is a good fit for them. These rotations are mandated by the National Institutes of Health as a condition of participating in the training program.

During the rotation you will have an opportunity to learn about the group’s research projects. You are expected to read relevant papers in the field, including the group publications. You should also attend group meetings and presentations. Finally, the rotation will enable you to learn new methods, approaches and instruments. You will be expected to gain some degree of proficiency in one new technique.

Suggested Rotation Schedule
(Before rotating confirm ChBE’s rotation schedule with graduate coordinator Iman Nassar).

<table>
<thead>
<tr>
<th>Rotation 1</th>
<th>Start</th>
<th>Monday, September 18</th>
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<tbody>
<tr>
<td></td>
<td>End</td>
<td>Friday, October 13</td>
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<table>
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<tr>
<th>Rotation 2</th>
<th>Start</th>
<th>Monday, October 23</th>
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<tbody>
<tr>
<td></td>
<td>End</td>
<td>Friday, November 17</td>
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</tbody>
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Time spent over the summer in the lab of a training program preceptor can be used to fulfill one rotation requirement.

Please inform Tiffany Ozmina, the CLP Training Program Coordinator (tiffany.ozmina@northwestern.edu), regarding which labs you would like to rotate through, if possible by, Friday, September 22. She can help coordinate your rotations with your preferred preceptors. A signed rotation form will be required with your fellowship application. We recommend that you complete the appropriate form fields upon completion of each rotation.

www.clptrainingprogram.northwestern.edu
<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Research Interest</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| Bagheri, Neda         | Employs engineering principles, informed by biology, to better understand, predict, and control complex biological functions identify design principles that underlie complex biological function, and modulate extrinsic factors to optimize therapeutic interventions. | Office: Tech E154  
Phone: 847-491-2716  
Email: n-bagheri@northwestern.edu                                                                                                   |
| Jewett, Michael       | Synthetic biology, cell-free biology, biotechnology, cancer, systems biology, metabolic engineering                                                                                                               | Office: Silverman Hall 3621  
Phone: 847-467-5007  
m-jewett@northwestern.edu                                                                                                             |
| Leonard, Joshua       | Engineering cellular systems and biomolecules for immunotherapy, synthetic biology, and biotechnology.                                                                                                              | Office: Tech E244  
Phone: 847-491-7455  
Email: j-leonard@northwestern.edu                                                                                                  |
| Lucks, Julius         | Unraveling the RNA sequence/structure/function code for biology, medicine and biotechnology.                                                                                                                        | Office: Tech E136  
Phone: 847-467-2943  
Email: jblucks@northwestern.edu                                                                                                        |
| Mirkin, Chad          | Developing methods for controlling the architecture of molecules and materials on the 1 - 100 nm length scale.                                                                                                    | Office: Ryan 3012  
Phone: 847-467-7302  
chadnano@northwestern.edu                                                                                                              |
Phone: 847-467-0472  
milan.mrksich@northwestern.edu                                                                                                          |
| Olvera de la Cruz, Monica | Macromolecular physics and material properties                                                                                                                                                                   | Office: Silverman Hall 4621  
Phone: 847-491-7801  
m-olvera@northwestern.edu                                                                                                          |
| Schatz, George        | Plasmonic materials, single molecule mechanical properties and DNA photophysics and mechanical properties.                                                                                                      | Office: Ryan 4018  
Phone: 847-491-5657  
g-schatz@northwestern.edu                                                                                                               |
| Szleifer, Igal        | Molecular modeling of biointerphases; complex molecular systems that encompass problems at the interface between biology, chemistry, physics and materials science.                                                    | Office: Silverman Hall 4629  
Phone: 847-467-0674  
igalsz@northwestern.edu                                                                                                               |
| Tullman-Ercek, Danielle | Engineering of membrane proteins and protein membranes                                                                                                                                                        | Office: Silverman Hall 3619  
Phone: 847-491-7043  
Email: ercek@northwestern.edu                                                                                                         |
| Tyo, Keith            | Developing new types of standardized parts for manipulating cellular function in microbes.                                                                                                                       | Office: Tech E156  
Phone: 847-868-0319  
Email: k-tyo@northwestern.edu                                                                                                           |