

NAME: \_\_\_\_\_

Please rank three of the following major areas in order of preference (1-first preference, 2-second, etc.).

\_\_\_\_\_ Analytical  
\_\_\_\_\_ Organic  
\_\_\_\_\_ Biochemistry

\_\_\_\_\_ Inorganic  
\_\_\_\_\_ Physical  
\_\_\_\_\_ Chemical Education

Below is a list of the research interests in our department. Please check the specialty areas which you feel may be of interest to you and return this form with your application.

Electrochemical methods, fundamentals and applications  
 NMR of polymers/biomolecules  
 Mass spectrometry of polymers/biomolecules  
 Analytical techniques in drug discovery  
 Molecular imaging  
 Analytical techniques in polymer chemistry  
 Single molecule measurements

Synthesis of donor-acceptor compounds  
 Solar energy conversion  
 Synthesis of luminescent materials  
 Supramolecular design  
 Synthesis of molecular sensors  
 Laser spectroscopy of ultrafast reactions  
 Synthesis and Study of Organic Self-Assemblies

Bioinformatics, proteomics, and metabolomics  
 Cellular signaling and molecular biology  
 Enzymology  
 Medicinal chemistry and drug discovery  
 Protein and nucleic acid structure  
 Membrane Protein Structure and Function

X-ray structure elucidation  
 Coordination chemistry  
 Main group chemistry  
 Organometallic chemistry  
 Bioinorganic and medicinal inorganic chemistry

Quantum chemistry  
 Molecular spectroscopy  
 Optical Microscopy and advanced imaging  
 Biophysical chemistry  
 Molecule structure and dynamics  
 Computational or theoretical chemistry  
 Photocatalysis