

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