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

**RESEARCH INTEREST QUESTIONNAIRE**

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

\_\_\_\_\_\_ Analytical \_\_\_\_\_\_ Inorganic

\_\_\_\_\_\_ Organic \_\_\_\_\_\_ Physical

\_\_\_\_\_\_ Biochemistry \_\_\_\_\_\_ 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.

**Analytical Chemistry**

\_\_ 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

**Organic Chemistry**

\_\_ 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

**Biochemistry**

\_\_ 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

**Inorganic Chemistry**

\_\_ X-ray structure elucidation

\_\_ Coordination chemistry

\_\_ Main group chemistry

\_\_ Organometallic chemistry

\_\_ Bioinorganic and medicinal inorganic chemistry

**Physical Chemistry**

\_\_ Quantum chemistry

\_\_ Molecular spectroscopy

\_\_ Optical Microscopy and advanced imaging

\_\_ Biophysical chemistry

\_\_ Molecule structure and dynamics

\_\_ Computational or theoretical chemistry

\_\_ Photocatalysis

**Chemical Education**

\_\_ General chemistry classroom curriculum

\_\_ Process oriented guided inquiry learning (POGIL)

\_\_ Technology enhanced classroom teaching

\_\_ STEM education and public policy

\_\_ Low cost and DIY laboratory instrumentation