Position Description:
We invite you to apply for a Postdoctoral Appointee position within our Chemical Sciences and Engineering Division (CSE).

In this role you will:
- Apply theoretical chemical kinetics and chemical kinetic modeling to the study of gas-phase processes.
- Utilize theoretical predictions to guide the development of coupled kinetic models with a view to interpreting gas phase reacting systems at high temperatures or highly energized/non-thermal environments.
- Emphasis on the unimolecular and bimolecular kinetics of molecules relevant to combustion and atmospheric processes.
- Perform theoretical calculations of the electronic structure and chemical kinetics for combustion/atmospheric chemistry relevant reactions.
- Maintain comprehensive knowledge of pertinent literature.
- Develop new ideas, concepts, and/or research proposals to create programmatic growth and intellectual property for the Division.

Required Knowledge, Skills, and Experience:
- Ability to use and/or develop in-house kinetics and UQ tools for interpreting coupled kinetics models to describe gas phase reactivity.
- Ability to communicate effectively with the supervisor, peers and laboratory management through research reports, project presentations and other regular channels.
- Demonstrated experience in at least one or more of the following areas: electronic structure theory, theoretical chemical kinetics and/or theoretical chemical dynamics, combustion/atmospheric chemistry.
- Knowledge of gas phase chemical kinetics, chemical physics, physical chemistry, and combustion/atmospheric chemistry.
- Ability to Model Argonne’s Core Values: Impact, Safety, Respect, Integrity, and Teamwork

Instructions to apply:
1) Visit https://www.anl.gov/hr/postdoctoral-applicants and search requisition #408789 to formally apply.
2) OR Use this link provided here and select, “apply now”

Contact Information:
Vitaliy Rikhlyuk – Talent Acquisition Specialist
vrikhlyuk@anl.gov