

Postdoctoral Appointee #408789  
Argonne National Laboratory  
Lemont, IL 60439

**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"  
[https://careers.peopleclick.com/careerscp/client\\_argonnelab/post\\_doc/gateway.do?functionName=viewFromLink&jobPostId=9525&localeCode=en-us](https://careers.peopleclick.com/careerscp/client_argonnelab/post_doc/gateway.do?functionName=viewFromLink&jobPostId=9525&localeCode=en-us)

Contact Information:

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