

## **Senior Research Scientist and Postdoctoral Associate Positions at the High Pressure Synergetic Center (HPSynC) at the Advanced Photon Source**

The High Pressure Synergetic Center (HPSynC) invites applications for a senior research scientist and a postdoctoral associate position at the Advanced Photon Source (APS), Argonne National Laboratory, USA. The HPSynC mission is to establish high-pressure environment at many APS beamlines with varieties of x-ray probing capabilities. Responsibilities of the senior research scientist and postdoctoral associate at HPSynC include conducting original researches, developing and integrating novel high-pressure synchrotron techniques, and promoting newly enabled high-pressure synchrotron techniques to the user communities.

The senior research scientist position is equivalent to a staff beamline scientist position at APS without the responsibility on a single beamline, but with the responsibility of leading development in several directions of high-pressure synchrotron applications. Successful candidate is expected to establish an independent research program and should have an outstanding research and development record as well as the ability to attract research funding and foster collaborative initiatives. Applicants must have a Ph.D. degree in physics, chemistry, materials science, Earth science, biophysics, engineering, or a related field. Expertise in high-pressure apparatus, cryogenics, laser and resistive heating is desirable. The research scientist position requires a minimum of two-year work experience after Ph.D. at synchrotron beamlines and/or high-pressure laboratories.

The postdoctoral associate is expected to focus on development of a direction of high-pressure synchrotron application. Applicants must have a Ph.D. degree in physics, chemistry, materials science, Earth science, biophysics, engineering, or a related field. Expertise in high-pressure apparatus, cryogenics, laser and resistive heating, and/or synchrotron experimentation is desirable.

Interested candidates should send a detailed CV, research interests, along with a list of publications, and the names and addresses of three references to Dr. Ho-kwang Mao ([mao@gl.ciw.edu](mailto:mao@gl.ciw.edu)), Geophysical Laboratory, Carnegie Institution of Washington, 5251 Broad Branch Road, NW, Washington DC, 20015, USA.

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