

## **Assistant Beamline Scientist – Diffraction/Imaging/Microscopy at *high pressure-temperature-strain rate* conditions at HPCAT (RD2/RD3).**

The High-Pressure Collaborative Access Team (HPCAT) located at sector 16 of the Advanced Photon Source is currently seeking a beamline scientist to provide support for conducting research at extreme pressure-temperature conditions. The primary focus of this role will be to advance the applications of cutting edge, synchrotron-based, static, and time-resolved, high P-T research and enable transformational scientific discoveries in material science, physics, and chemistry. We are seeking a candidate with expertise in laser heating systems, but candidates with broader qualifications/background will be also considered.

The ideal candidate will have the following responsibilities in the field of high-pressure research:

- Pioneering innovative techniques and methodologies
- Providing support for user activities at HPCAT beamlines
- Advancing applications in fields that include extreme pressure-temperature-strain rate studies of material response.
- Close collaboration with users and other members of HPCAT to develop and nurture a broad research program that brings several probes to bear and leverages rapidly developing computational tools.
- Advance synchrotron instrumentation and scientific experimental techniques that leverage APS-U and the concomitant HPCAT upgrade.
- Coordinating with engineers and support staff to facilitate commissioning and bringing HPCAT on-line post upgrade.
- Reporting project progress, scientific progress, and research appropriately to colleagues, the HPCAT management and the wider user community.

Details of the advertisement can be found at - <https://bit.ly/BeamlineSci>.