

Postdoctoral position available in Viromics Laboratory at IAS, Shenzhen University

The Chao's Viromics Laboratory at the Institute for Advanced Study, Shenzhen University (IAS: <https://ias.szu.edu.cn/en/>; Chao's Viromics Laboratory: <https://www.x-mol.com/groups/viromics>) is looking for 3 Postdoctoral Scientists to study viromics. The laboratory will take viromics as its foundation, combining various approaches such as metagenomics, metatranscriptomics, stable isotope labeling, chemical spectroscopic analysis, geochemical thermodynamics, and bioinformatics tool development. It will focus on deep-sea hydrothermal ecosystems, coastal wetlands, and freshwater lakes as the main research areas, systematically investigating the mechanisms of virus-driven carbon, nitrogen, and sulfur cycles, as well as the ecological evolution and biological research of Mirusvirus and Nucleocytoviricota (Giant Virus). Our laboratory offers a highly interdisciplinary, welcoming, and inclusive environment with the opportunity to collaborate with other labs at IAS, Shenzhen University and beyond. Specific opportunities are available to focus on marine and freshwater systems.

Google Scholar:

https://scholar.google.com/citations?hl=en&user=9e0nrQIAAAAJ&view_op=list_works&sortby=pubdate

Shenzhen is a vibrant hub of innovation with a large number of foreigners, located just half an hour away from Hong Kong. The IAS is an academic zone within Shenzhen University to explore comprehensive reform and innovation. Collaborating with prestigious universities in Hong Kong and overseas, the institute adopts management models commonly practiced by research universities both domestically and internationally. In terms of platform equipment and research teams, it possesses key laboratories such as the Shenzhen Key Laboratory of Marine Microbial Genomics, the Shenzhen University-University of Maryland Joint Laboratory for Environmental and Materials Science and et al., equipped with world class instruments and testing platforms.



The View of Shenzhen University (Yuehai Campus)



The View of Institute for Advanced Study Building (Zhizhi Building)

Research Background

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 - a. Applicants with backgrounds in bioinformatics, metagenomics, viromics, second/third-generation sequencing analysis, or other omics or evolutionary (DNA, RNA, etc.) analysis are welcome. Familiarity with command-line and R language coding is preferred, and candidates who can independently write code are prioritized.
 - b. Applicants with experimental backgrounds should have experience in microbial molecular ecology, molecular biology, microbial/viral molecular genetic manipulation, preparation of second-generation sequencing libraries, third-generation sequencing DNA extraction, and library preparation.
 - c. Applicants with both computational and experimental backgrounds are preferred, but having expertise in either one is acceptable for application.
2. Ability to learn and master new knowledge and technologies, strong interest in the research direction of our group, and self-driven. Applicants should have the vision and potential to publish high-quality papers.
3. Independence and adaptability to collaborative environments.
4. Strong English reading and writing skills.

Applicants are requested to send a single pdf file containing 1) CV (3 pages max); 2) A brief statement of interest with relevant experiences and future research plan (2 pages max) to Zhichao Zhou (zczhou2017@szu.edu.cn)

Start Date: Any time in 2024 (Negotiable); Deadline: Until filled
Salary: 380,000 RMB (equals to 52,000 USD) and related benefits

