

Postdoctoral Position

Developmental Genetics, Stem Cells, Morphogenesis & Evolution

Parichy Lab | University of Virginia

A postdoctoral position is available in the Parichy Lab at the University of Virginia (parichylab.org). We seek a creative, motivated scientist interested in understanding how gene activities and cellular behaviors generate the forms of adult organisms. Our work takes an integrative approach, combining developmental genetics, high-resolution in vivo imaging, cutting-edge single-cell genomics, and comparative biology. Primary systems include zebrafish, related Danio species, guppies, and other teleost fishes.

Current projects span postembryonic neural crest stem cell biology, pigment cell fate specification and transdifferentiation, self-organizing pattern formation, the role of positional information from tissue environments, evolution of new cell types, and the genetic basis of phenotypic variation within and between species. Flexible funding allows applicants to propose projects aligned with their own interests and career goals, whether focused on a single system or spanning comparative approaches. The group is unusually well-equipped, with lab-dedicated infrastructure for super-resolution, laser confocal and laser spinning disk microscopy, single cell genomics, fluorescence activated cell sorting, molecular and classical histology, and housing and propagating a wide variety of freshwater and marine species.

Ideal candidates will hold a Ph.D. in developmental biology, genetics, cell biology, evolutionary biology, or a related field and have a strong record of research productivity. Experience with zebrafish or other model organisms, imaging, genomics, or computational approaches is valued but not required. We especially welcome applicants eager to develop an independent research trajectory and who view the postdoc as a launchpad for their own program.

UVA's Department of Biology (bio.as.virginia.edu) offers a collaborative and intellectually vibrant community with particular strengths in developmental biology, genetics, evolutionary biology, and cell and molecular biology. Charlottesville is a livable, culturally rich city set in the foothills of the Blue Ridge Mountains, with outstanding schools, a vibrant scene for food, music and fine arts, abundant outdoor recreation, and easy access to Shenandoah National Park and Washington, D.C.

To apply, please send a CV and cover letter describing your research interests and goals to David Parichy at dparichy@virginia.edu.