

**TWO POSTDOC POSITIONS IN DNA REPLICATION AND CHROMOSOME ARCHITECTURE:
(Steve D. Bell Lab, Indiana University, Bloomington)**

Two full-time NIH-funded postdoctoral positions are available in Steve Bell's lab, Department of Molecular and Cellular Biochemistry and Department of Biology, Indiana University, Bloomington. Our lab conducts research on the machineries that effect DNA replication and sculpt genome conformation. We exploit a model organism, *Sulfolobus* to perform our work (see <http://www.indiana.edu/~sbelllab/site/home.html>).

The **first position** will focus on identifying the mechanisms that effect coordinate control of DNA replication initiation from the multiple replication origins in the *Sulfolobus* chromosome.

The **second position** will investigate the function and architecture of the *Sulfolobus* genome. We have recently described the low-resolution structure of the *Sulfolobus* genome (Takemata et al., *Cell*, 2019). We will build on those preliminary data to determine the molecular basis of the establishment and maintenance of the compartmentalized genome architecture.

Both projects will involve a series of biochemical, genetic and protein structure-based approaches.

We seek two collegial, self-motivated, independent, and intellectually curious individuals who by the time of appointment should have PhDs in molecular biology, microbial genetics, biochemistry, or a related field. Applicants for either position must have strong bench skills, and familiarity with techniques such as cloning, qPCR, recombinant protein purification, and the bioinformatic analyses of next-gen sequencing data is strongly desirable (though training in these techniques will also be provided as necessary). In addition, candidates must have demonstrated written and oral communication skills. Experience working with archaea is helpful but not required. Both positions are initially available for 12 months, with possible extension for a further three years. Salary will be commensurate with experience, and full benefits are included.

- To apply for the first position (DNA Replication), please submit a letter of application indicating which position is being applied for, a CV, a statement of research interests, and the contact information for three references to <https://indiana.peopleadmin.com/postings/8874>
- To apply for the second position (Chromosome architecture), please submit a letter of application indicating which position is being applied for, a CV, a statement of research interests, and the contact information for three references to <https://indiana.peopleadmin.com/postings/8876>

Start date is flexible. Inquiries about either position can be directed to Steve Bell (stedbell@indiana.edu).

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