

From: Catherine Searle
Subject: Postdoc.PurdueUniversity.SeaLampreyGenomics

A postdoctoral position is available in the laboratory of Mark Christie at Purdue University ([https://urldefense.proofpoint.com/v2/url?u=https-3A__www.bio.purdue.edu_lab_christie_&d=DwIF-g&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeATyN59ZLoI&m=piogu-J4WZis-EPxUVTZ63fdNEXhy7A-4UD0PM692R4&s=IGFbAoPa-8_8guTbwdnKgPZjkXTzk3zaBeYehHOVAa8&e= \)](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.bio.purdue.edu_lab_christie_&d=DwIF-g&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeATyN59ZLoI&m=piogu-J4WZis-EPxUVTZ63fdNEXhy7A-4UD0PM692R4&s=IGFbAoPa-8_8guTbwdnKgPZjkXTzk3zaBeYehHOVAa8&e=)) to address a variety of evolutionary and genetic questions in sea lamprey (*Petromyzon marinus*). Part of the research will focus on addressing whether invasive sea lampreys are evolving resistance to a commonly used lampricide; a recent review of which is available here:

https://urldefense.proofpoint.com/v2/url?u=https-3A__www.bio.purdue.edu_lab_christie_docs_024-5Fcfjas-2D2017-2D0015.pdf&d=DwIF-g&c=Ngd-ta5yRYsqeUsEDgxhcqsYYY1Xs5ogLxWPA_2Wlc4&r=e2OJ1azRFn8ihJzb2HxZT0AqoiqLvxfeeATyN59ZLoI&m=piogu-J4WZis-EPxUVTZ63fdNEXhy7A-4UD0PM692R4&s=KEBhcHOxMcZWEsXAA1mFjdxXtz4MbzXc2-GNzSZFs1c&e= .

Whole transcriptome sequencing (i.e., RNA-seq) will play a central role in this project, thus the ideal candidate will have a strong background in bioinformatics. Proficiency with Unix/Linux (bash shell) command line and one or more scripting languages (Perl/Python etc.) is preferred. Competitive applicants will also have familiarity with R and analytical methods in population genetics. The candidate is expected to be highly motivated and able to work both collaboratively and independently. The position is to be filled as soon as possible.

Applicants must have a PhD; exceptional candidates who will complete their PhD within the next few months will also be considered.

Applicants should submit 1. a cover letter that describes your research interests and goals, 2. a full CV, and 3. the names and contact information for three individuals who are willing to serve as references. Please submit all application materials as a single PDF file to markchristie@purdue.edu. Funding is available for two years contingent upon a successful one-year review. Review of applications will begin November 1st and continue until the position is filled.

Purdue has substantial bioinformatics resources and state-of-the-art computational facilities ideal for working with high-throughput sequencing data. West Lafayette is located about 1 hour away from Indianapolis and two hours from Chicago. Purdue University's Department of Biological Sciences is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction and engagement.